QA
M424
ATHEMATICS
3 1941

Mathematical Reviews

December, 1940 TABLE OF CONTENTS Vol. 1, No. 12

Author index 353

Subject index 385

Errata 400

UNIVERSITY OF ARKANSAS
LIBRARY

THE REPRINT SERVICE

The subscribers to MATHEMATICAL REVIEWS can obtain, either on microfilm or as photoprint, the complete text of any article of which an abstract is printed, except books, or material of which the reproduction is prohibited by copyright law. The microfilm requires some sort of reading machine or projector in which standard 35 mm. double perforated film can be viewed. Only *positive* prints are furnished; that is, the projected image appears as black words on a white background. Photoprints, on the other hand, are on sheets 10" by 14", and are similar to photostats. They can be read directly without the aid of any reading device. They also are furnished as positives, that is, black words on a white background.

Articles not abstracted in the MATHEMATICAL REVIEWS will be copied at the rates mentioned below provided the material is available in the library of Brown University. All microfilm copies of articles other than those with MF numbers will be supplied as negatives.

Cost

The cost of microfilm is 2¢ per exposure, *each exposure* (except in the case of a very few unusually large journals) *containing two pages of text*.

Photoprints cost 16¢ per sheet, *each sheet* (except in the case of unusually large journals) *containing two pages of text*.

The minimum charge for any one order (but not for any one item when several items are ordered simultaneously) is 50¢.

How to Order

The process of ordering either microfilm or photoprint may be made clear by considering an example. Each abstract bears a serial number easily recognized by the fact that it is always preceded by the abbreviation "MF". A subscriber who wishes the text of item 18 would first note that the original article occupied pages 590 to 608. It therefore covers 19 pages, and will require ten exposures of microfilm, or ten sheets of photoprint for its reproduction. Hence the microfilm charge for this particular item would be 20¢, and the photoprint charge $1.60. The charges so computed apply on any order totaling 50¢ or more; if the total is less than 50¢, the charge for the entire order will be 50¢.

In ordering:

1. Give your name and address.
2. State the serial number of the article or articles you wish.
3. Say whether you wish microfilm or photoprint.
4. Enclose cash for the amount of the order, either in currency, stamps, or by check.
5. Mail to MATHEMATICAL REVIEWS, Brown University, Providence, Rhode Island.

In the case of large journals, only one page of which can be accommodated on a microfilm exposure or a photoprint sheet, you will be notified of the extra charge before the order is filled, unless you have indicated on your order that the reprint is desired even at the higher price.

Why Cash Must Accompany Order

Individual orders for either microfilm or photoprint are so small that if credit books were kept and bills rendered, the extra clerical expenses would be a large proportion of the total. By requiring payment in advance, these charges have been eliminated, and the price to the customer correspondingly reduced. However, libraries and institutions which make extensive use of the service may be granted the privilege of payment at stated intervals.

ONE-SIDE EDITION OF MATHEMATICAL REVIEWS

In order to supply persons interested in making card files for subject indices of their own fields, or to add bibliographical remarks to the REVIEWS in the future, there will be available an edition of MATHEMATICAL REVIEWS printed on only one side of the paper. This special edition may be obtained for an additional payment of $1.00 (that is, $14.00 for subscriptions, and $7.50 for members of sponsoring organizations). This edition will be folded but not stitched. Subscriptions for this edition should be entered as soon as possible since only a limited number can be printed. For the first four issues, only the two-side edition is available. A current regular subscription can be changed to the one-side subscription by informing MATHEMATICAL REVIEWS and paying $1.00.

MATHEMATICAL REVIEWS

Published monthly by

THE AMERICAN MATHEMATICAL SOCIETY, Prince and Lemon Streets, Lancaster, Pennsylvania

Sponsored by

THE AMERICAN MATHEMATICAL SOCIETY
THE MATHEMATICAL ASSOCIATION OF AMERICA
ACADEMIA NACIONAL DE CIENCIAS EXACTAS, FISICAS Y NATURALES DE LIMA
HET WISKUNDIG GENOOTSCHAP TE AMSTERDAM
THE LONDON MATHEMATICAL SOCIETY

Editorial Office

MATHEMATICAL REVIEWS, Brown University, Providence, R. I.

Subscriptions: Price $13 per year ($6.50 per year to members of sponsoring societies). Checks should be made payable to MATHEMATICAL REVIEWS. Subscriptions should be addressed to MATHEMATICAL REVIEWS, Lancaster, Pennsylvania, or Brown University, Providence, Rhode Island.

This publication was made possible in part by funds granted by the Carnegie Corporation of New York, the Rockefeller Foundation, and the American Philosophical Society held at Philadelphia for Promoting Useful Knowledge. These organizations are not, however, the authors, owners, publishers, or proprietors of this publication, and are not to be understood as approving by virtue of their grants any of the statements made or views expressed therein.

Entered as second-class matter February 3, 1940 at the post office at Lancaster, Pennsylvania, under the act of March 3, 1879. Accepted for mailing at special rate of postage provided for in the Act of February 28, 1925, embodied in paragraph 4, section 538, P. L. and R. authorized November 9, 1940.

Mathematical Reviews

Vol. 1, No. 12 DECEMBER, 1940 Pages 353-400

AUTHOR INDEX

Abe, M.
Methode der Polyederentwicklung der Kompakten und ihre Anwendungen auf die Abbildungstheorie. 106
Automorphismen der lokal-kompakten abelschen Gruppen. 259
Abramescu, N.
Nouvelle méthode pour obtenir la cubique qui donne les tangentes de Darboux en un point d'une surface. 170
Abramov, B. M.
Action non-symétrique d'un poinçon circulaire appliqué à un corps élastique d'épaisseur infinie et limité par un plan. 288
Abramowitz, M.
Computation of the differences of the Si(x), Ci(x), Ei(x) and $-\mathrm{Ei}(-x)$ functions. 252
Ackermann, W.
Zur Widerspruchsfreiheit der Zahlentheorie. 322
Ackermann, W.-G.
Erweiterung des Poissonschen Grenzwertsatzes und ihre Anwendung auf die Risikoprobleme in der Sachversicherung. 251
Adam, P. Puig. See Puig Adam.
Adams, C. R. and Clarkson, J. A.
Correction to "Properties of functions $f(x, y)$ of bounded variation." 48
Adams, C. R. and Morse, A. P.
Continuous additive functionals on the space (BV) and certain subspaces. 337
Adams, E. P.
Problem in electrostatics. 223
Adkisson, V. W. and MacLane, S.
Extending maps of plane Peano continua. 221
Agnew, R. P.
Oscillations of real sequences and of their transforms by square matrices. 10
Properties of generalized definitions of limit. 50
Translations of functions and sets. 296
Kernels of faltung transformations. 331
Agostinelli, C.
Moto di un corpuscolo elettrizzato in un campo magnetico simmetrico rispetto a un asse e integrazione del problema in un caso particolare. 92
Moto di un corpuscolo elettrizzato in presenza di un dipolo magnetico e in prossimità del piano equatoriale. 93
Aida, G.
Tensors and universalism. 131
Aitken, A. C.
Determinants and matrices. 35
Statistical mathematics. 247
Independence of linear and quadratic forms in samples of normally distributed variates. 346
Akker, J. A. Van den. See Van den Akker.
Alaoglu, L.
Weak topologies of normed linear spaces. 241
Alaoglu, L. and Birkhoff, G.
General ergodic theorems. 148, 339
Albert, A. A.
Structure of algebras. 99
Ordered algebras. 328
Alessi, J. M.
Heine's transformation of dual and bidual variables. 205
Alexander, H. W.
Role of the mean curvature in the immersion theory of surfaces. 269
Alexandroff, A. D.
Oberflächenfunktion eines konvexen Körpers. 265
Konvexe Flächen mit ebenen Schattengrenzen. 265
Alexandroff, P.
Bikompakte Erweiterungen topologischer Räume. 318
Allendoerfer, C. B.
Rigidity for spaces of class greater than one. 28
Alt, W.
Reelle Funktionen einer reellen Veränderlichen, welche ein rationales Additionstheorem besitzen. 297
Ambrose, W.
Measurable stochastic processes. 149
Amerio, L.
Metodo della trasformazione di Laplace in un problema di propagazione dell'elettricità. 180
Condizioni di validità dei metodi di sommazione di Gronwall. 218
Amin, A. Y.
Méthode géométrique permettant d'obtenir 991 des 2015 coniques de contact d'une courbe plane quintique. 82
Amodeo, F.
Origine e sviluppo della geometria proiettiva. 165
Geometria delle serie lineari delle curve algebriche. 167
Origin and development of projective geometry. 260
Amoroso, L.
Transformation of value in the productive process. 155
Anastassiadis, J.
Valeurs exceptionnelles des fonctions entières et méromorphes d'ordre fini. 307
Anghelutza, T.
Propriété des polynômes. 110
Limite des modules des zéros des polynomes. 193, 323
Ansermet, A.
L'emploi en géodésie de coordonnées polaires conformes. 85
Anton, L.
Ausbildung eines Wirbels an der Kante einer Platte. 286
Apéry, R.
Sextiques à 8 rebroussements. 82
Appert, A.
Mesure dans l'espace à une infinité de coordonnées. 209
Appleby, M.
Elementary statics. 122
Archibald, R. C.
Gino Loria. 34
Arf, C.
Reinverzweigte Erweiterungen diskret bewerteter perfekter Körper. 4
Arley, N.
On a Dirichlet integral. 72
Armellini, G.
Problemi fondamentali della cosmogonia e la legge di Newton. IV. 61
Aronszajn, N.
Recherches sur l'intégrale de Weierstrass. I–III. 111, 305

Arrighi, G.
Solido con un punto fisso: caso in cui un impulso attivo non cimenta il vincolo. 122
Note di elastodinamica. 188
Artemenko, A.
Forme générale d'une fonctionelle linéaire dans l'espace des fonctions à variation bornée. 239
Artemieff, N.
Realisierbare Trajektorien. 281
Asano, K.
Arithmetische Idealtheorie in nichtkommutativen Ringen. 100
Verallgemeinerte Abelsche Gruppe mit hyperkomplexem Operatorenring und ihre Anwendungen. 103
Ringe mit Vielfachenkettensatz. 198
Atkinson, F. V.
Summation formula for $p(n)$, the partition function. 40
Auluck, F. C.
Poncelot polygons. 156
Avakumović, V. G.
Laplacesche Integrale, deren Wachstum von Exponentialcharakter ist. I, II. 228
Awbery, J. H.
Periodic flow of heat in a hollow cylinder. 120
Ayres, W. L.
Transformations having periodic properties. 45

Babbage, D. W.
Quadrics through a canonical curve. 83
Bachmann, F.
Aufbau des Zahlensystems. 46
Stufen der absoluten Geometrie. Die Frage nach der Unabhängigkeit der Anordnung. 261
Bachmann, W. K.
Théorème de Tissot et lignes de déformation. 171
Bachvaloff, S.
Couples de congruences stratifiables. 270
Couples de congruences stratifiables, liés à la congruence de Bianchi. 270
Backman, G.
Methodik der theoretischen Wiedergabe beobachteter Wachstumsserien. 251
Badarau, G.
Propagation des groupes d'ondes et les relations entre la mécanique classique et la mécanique ondulatoire. 95
Bădescu, R.
On a problem of Goursat. 16
Una certa serie di Laurent di due variabili. 50
Baer, R.
Nets and groups. 6
Groups with Abelian norm quotient group. 6
Duality and commutativity of groups. 104
Baeschlin, C. F.
Fehlertheorie der Herablegung eines Hochpunktes. 32
Baidaff, B. I.
Derivatives of functions of u/v. 72
Bailey, W. N.
Hermite polynomials and associated Legendre functions. 53
Product of two associated Legendre functions. 232
Baker, B. B. and Copson, E. T.
Mathematical theory of Huygens' principle. 315
Baker, G. A.
Comparison of Pearsonian approximations with exact sampling distributions of means and variances in samples from populations composed of the sums of normal populations. 346
Balaguer, F. Suner y. See Suner y Balaguer.
Ballantine, J. P.
Best (?) formula for computing π to a thousand places. 126
Bancayan, M. Larrea. See Larrea Bancayan.
Banerjee, D. P.
Expansion of a function in a generalized Neumann series. 230

Banerji, A. C.
Development of galactic dynamics and some allied problems. 282
Bang, A. S.
Sums of powers of the sixth degree. 291
Bannow, E.
Automorphismengruppen der Cayley-Zahlen. 328
Baños, A., Jr.
Asymptotic orbits in the theory of primary cosmic radiation. 60
Barnard, S. and Child, J. M.
Advanced algebra. 193
Barnett, I. A. and Reingold, H.
Invariants of a system of linear homogeneous differential equations of the second order. 273
Barnett, I. A. and Szász, O.
Certain Diophantine problem. 134
Baron, H.
Nachtrag zur Erweiterung des Satzes von Desargues. 262
Barone, H. G.
Limit points of sequences and their transforms by methods of summability. 218
Barrer, R. M.
Gas flow in solids. 120
Bartlett, M. S.
Standard errors of discriminant function coefficients. 248
Interpretation of quasi-sufficiency. 347
Basilevitch, I.
Sur un théorème de Littlewood et Paley. 308
Bateman, H.
Symmetrical potentials and the partial differential equation $V_{xxzz}+V_{xxyy}+V_{tt}=0$. 77
Aerodynamics of reacting substances. 187
Bath, F.
Circles determined by five lines in a plane. 80
Battaglia, A.
Generazione geometrica delle cubiche razionali circolari. 80
Bauer, E. See London, F.
Bauer, M.
Zusammengesetzte relativ Galoissche Zahlkörper. 135, 292
Zusammensetzung algebraischer Zahlkörper. 135, 292
Bebutoff, M.
Représentation des trajectoires d'un système dynamique sur un système de droites parallèles. 281
Bebutoff, M. and Schneider, V.
A denumerable topological space. 317
Bechert, K.
Theorie ebener Störungen in reibungsfreien Gasen. 286
Beckenbach, E. F.
Space analogs of function-theoretic results. 312
Becker, M. F. and MacLane, S.
Minimum number of generators for inseparable algebraic extensions. 198
Becqué, J.
L'emploi du vectoriel dans la théorie du trièdre mobile de Darboux. 269
Beeger, N. G. W. H.
Report on calculations of prime numbers. 65
The congruence $2^{p-1}\equiv 1 \pmod{p^2}$ and Fermat's last theorem. 65
Beevers, C. A.
Machine for the rapid summation of Fourier series. 31
Behari, R.
Generators of a ruled surface. 170
Behnke, H.
Fortsetzbarkeit analytischer Funktionen mehrerer Veränderlichen und Zusammenhang der Singularitäten. 215
Behrend, F.
Systeme reeller algebraischer Gleichungen. 36
Belardinelli, G.
Esempio di serie ipergeometrica di ordine infinito. 117

Belinfante, F. J. (Cf. Pauli, W.)
Covariant derivative of tensor-undors. 273
Undor calculus and charge-conjugation. 279
Undor equation of the meson field. 279
Spin angular momentum of mesons. 280
Bell, E. T.
Compound multiplicative Diophantine systems. 291
Bell, P. O.
First canonical pencil. 84
Study of curved surfaces by means of certain associated ruled surfaces. 85
Bellustin, S. V.
Currents in vacuo between co-axial cylinders. 223
Bennett, G. T.
Continuants and precontinuants. 97
Beretta, L. and Maxia, A.
Insiemi convessi e orbiformi. 264
Beretta, L. and Merli, L.
Convergenza in media della formula di interpolazione di Hermite. 54
Berger, A.
Verschiebungssatz der Versicherungsmathematik. 23
Bergmann, S.
Kernfunktion gewisser Reinhardtscher Kreiskörper. 115
Bergmann, S. and Marcinkiewicz, J.
Fonctions analytiques de deux variables complexes. 10
Bergmann, S. and Martin, W. T.
Modified moment problem in two variables. 332
Berkson, J.
Note on the chi-square test, the Poisson and the binomial. 347
Bernstein, B. A.
Groups and Abelian groups in terms of negative addition and negation. 104
Bernstein, S. N.
Remarks concerning the limit theorem of Liapunov. 340
Correction d'une démonstration. 345
Berra, A. E. Sagastume. See Sagastume Berra.
Berwald, L.
Finslersche und Cartansche Geometrie. II. 89
n-dimensionale Cartansche Räume und eine Normalform der zweiten Variation eines $(n-1)$-fachen Oberflächenintegrals. 177
Berzolari, L.
Gaetano Scorza. 130
Equazione differenziale di un sistema ∞^1 di coniche osculatrici a una conica data. 300
Best, E.
A closed dimensionless linear set. 302
Sets of fractional dimensions. 302
Beurling, A.
Ensembles exceptionnels. 226
Bickley, W. G.
Formulae for numerical integration. 126
Bieberbach, L.
Inhaltsgleichheit der Brillouinschen Zonen. 192
Biggeri, C.
Singularities of Dirichlet series. 113
Singularités des fonctions analytiques définies par des séries de Dirichlet. 113
Abscissas of convergence of the integrals of Laplace and of the Dirichlet series. 140
Singular points of analytical functions defined by general Dirichlet series. 210
Abscissas of convergence of Laplace integrals. 332
Billing, G. and Mahler, K.
Exceptional points on cubic curves. 266
Biot, M. A.
Increase of torsional stiffness of a prismatical bar due to axial tension. 91
Birindelli, C.
Comportamento asintotico degli integrali generali di due classiche equazioni differenziali. 117
Birkhoff, G. (Cf. Alaoglu, L.)
Ergodic theorem for general semi-groups. 148
Lattice theory. 325
Birkhoff, G. and Ward, M.
Characterization of Boolean algebras. 2
Bishop, D. J.
Comprehensive test for the homogeneity of variances and covariances in multivariate problems. 64
Bishop, M. C.
Computation for analysis of variance. 154
Blackett, P. M. S. and Williams, F. C.
Automatic curve follower for use with the differential analyser. 128
Blanc, C.
Interprétation élémentaire des théorèmes fondamentaux de M. Nevanlinna. 213
Blanch, G. See Lowan, A. N.
Blaschke, W. and Terheggen, H.
Trigonometria hermitiana. 261
Blewett, J. P. and Ramo, S.
High frequency behavior of a space charge rotating in a magnetic field. 274
Blichfeldt, H. F.
Minimum value of the discriminant of an algebraic field. 68
Blokhintzev, D. I.
Gibbs quantum ensemble and its connection with the classical ensemble. 276
Blumenthal, L. M.
Metric methods in determinant theory. 35
"A paradox, a paradox, a most ingenious paradox." 322
Blumenthal, L. M. and Robinson, C. V.
New characterization of the straight line. 263
Boas, R. P., Jr.
Generalization of the Stieltjes moment problem. 13
A trigonometric moment problem. 52
Entire functions bounded on a line. 212
Uniqueness theorems for entire functions. 212
Remarks on a theorem of B. Lewitan. 227
General expansion theorems. 229
A completeness theorem. 229
Some uniformly convex spaces. 242
Boas, R. P., Jr. and Widder, D. V.
Inversion formula for the Laplace integral. 228
Bochner, S.
Additive set functions on groups. 110
Uniqueness theorem for analytic almost-periodic functions. 140
Generalization of Poisson's summation formula. 217
Integration and differentiation in partially ordered spaces. 239
Harmonic surfaces in Riemann metric. 271
Finitely additive integral. 336
Bochvar, D. A.
Aussagenkalkül mit abzählbaren logischen Summen und Produkten. 321
Bock, P.
Integrale aus der Theorie der hypergeometrischen und verwandter Funktionen. 55
Integrale aus der Theorie der Besselschen, Whittakerschen und verwandter Funktionen. 233
Boehm, C.
Statistische Erforschung von Zusammenhängen. 155
Bohlin, K.
Suppléments à la théorie de l'équation algébrique du cinquième degré. 36
Bohr, H.
Logarithmic and exponential functions. 299

Bol, G.
Zur Theorie der konvexen Körper. 81
Ein isoperimetrisches Problem. 158
Solution of prize-problem 13, 1934. 171
Bompiani, E.
Alcune costruzioni di coniche. 33
Intorno ad alcune superficie razionali del 4° ordine. 82
Zwei Kalotten einer Hyperquadrik. 83
Teoremi sulle Jacobiane di particolari reti di curve piane e loro estensioni a particolari sistemi lineari di forme. 167
Superficie d'ordine $r-1$ dello spazio ad r dimensioni. 170
Geometria differenziale e geometria algebrica. 170
Calotte a centri allineati di superficie algebriche. 267
Gaetano Scorza. 290
Bonder, J.
Darstellung gewisser, in der Theorie der Flügelschwingungen auftretender Integrale durch Zylinderfunktionen. 8
Bonera, P.
Punti doppi impropri delle superficie razionali nello spazio a quattro dimensioni. 167
Borel, E.
Selecta. 128
Borgnis, F.
Elektrische Grundschwingung zylindrischer Hohlräume. 275
Born, M.
Stability of crystal lattices. I. 277
Bortolotti, Enea.
Geometria proiettiva differenziale dei 3-tessuti di curve spaziali (terne di congruenze). 171
Bortolotti, Ettore.
Primi algoritmi infiniti nelle opere dei matematici italiani del secolo XVII. 33
Opera geometrica di Evangelista Torricelli. 130
Bosanquet, L. S.
Solution of the Cesàro summability problem for successively derived Fourier series. 329
Bose, R. C.
Construction of balanced incomplete block designs. 199
Bottema, O.
Eine Geometrie mit unvollständiger Anordnung. 165
Classification of affine transformations. 194
Bourgin, D. G. and Duffin, R.
Dirichlet problem for the vibrating string equation. 120
Laplace Heaviside method for boundary value problems. 180
Bouwkamp, C. J.
Focal lines of conic sections in connection with a paper by Laguerre. 80
Bradshaw, J. W.
Modified series. 50
Brahana, H. R.
Finite metabelian groups and Plücker line-coördinates. 257
Branson, H. See Podolsky, B.
Bratt, J. B. See Lennard-Jones, J. E.
Brauer, A.
Addition chains. 40
Brauers, N.
Différentiation et intégration des fonctions presque-périodiques de plusieurs variables réelles. 330
Brelot, M.
Applications aux fonctions holomorphes de la théorie moderne du potentiel et du problème de Dirichlet. 114
Familles de Perron et problème de Dirichlet. 121
Sur la théorie moderne du potentiel. 121
Allure à la frontière des fonctions harmoniques, sous-harmoniques ou holomorphes. 122
Critères de régularité et de stabilité. 238
Brödel, W.
Fortgesetzte Untersuchungen über Deformationsklassen bei mehrdeutigen topologischen Abbildungen. 211
Broderick, T. S.
On obtaining an estimate of the frequency of the primes by means of the elementary properties of the integers. 41
On proving certain properties of the primes by means of the methods of pure number theory. 292
Broudno, A.
Fonctions uniformement continues sur des ensembles mesurables B. 303
Brouwer, L. E. J.
Triangulationsproblem. 46
Brown, S. L.
Mechanical harmonic synthesizer-analyzer. 127
Brun, V.
Deux transformations élémentaires de la fonction zeta de Riemann. 293
Brusotti, L.
Fasci reali di curve algebriche sopra una quadrica reale. 167
Superficie algebriche reali come modelli in questioni di isotopia. 267
Buchanan, D.
Asymptotic isosceles-triangle solutions for unequal masses. 124
Buchholz, H.
Ultrakurzwellen in konzentrischen Kabeln und die Hohlraum-Resonatoren in Form von Kreislochscheiben. 275
Bewegung elektromagnetischer Wellen in einem kegelförmigen Horn. 350
Bulgakov, B. V.
Mouvement troublé par des forces de haute fréquence. 236
Bullig, G.
Zahlengeometrie in den total reellen kubischen Körpern. 68
Burckhardt, J. J.
Zur Neubegründung der Mengenlehre. II. 132
Burgers, J. M.
Mathematical examples illustrating relations occurring in the theory of turbulent fluid motion. 186
Application of a model system to illustrate some points of the statistical theory of free turbulence. 186
Bush, L. E.
Asymptotic formula for the average sum of the digits of integers. 199
Bütner, H. A.
Problème de l'anamorphose générale. 255
van Buuren, C. L.
Theorem of Morley. 79
Buzano, P.
Determinazione e studio di superficie di S_3 le cui linee principali presentano una notevole particolarità. 86
Projektive Geometrie der partiellen Differentialgleichungen. 313

Cacho, L. Perez. See Perez Cacho.
Cairns, S. S.
Triangulated manifolds which are not Brouwer manifolds. 317
Calapso, Renato.
Sistemi di geodetiche generalizzate appartenenti ad una superficie di un S_3. 174
Calapso, Riccardo.
Superficie sviluppabili. 170
Esempio di tessuto esagonale. 262
Caldirola, P.
Relazioni fra le proprietà geometriche di une V_n e la dinamica delle particelle. 182
Calkin, J. W.
Functions of several variables and absolute continuity. I. 208
Calugareanu, G.
Surfaces de M. Tzitzéica qui sont des surfaces de révolution. 85
Suite des diamètres successifs d'un ensemble plan. 109
Cameron, E. A.
Loci associated with osculants and penosculants of a plane curve. 27

Cameron, R. H. and Wiener, N.
Convergence properties of analytic functions of Fourier-Stieltjes transforms. 13
Camp, B. H.
Comments on Berkson's problem. 347
Camp, K.
Actuarial note: practical interpolation methods with second-order curves. 126
Candy, A. L.
Pandiagonal magic squares of prime order. 290
Cantoni, R.
Equazione dei pentagoni articolati inscrittibili. II. 97
Capelli, P. F.
Holomorphic and polygonal functions of a binary complex variable. 300
Capocaccia, A. A.
Metodo per l'analisi dimensionale di sistemi di più grandezze. 92
Principio di similitudine meccanica applicato ai films lubrificanti. 92
Caracciolo, M. S.
Equazioni a radici opposte. 323
Carafa, M.
Applicazione delle serie di Fourier all'inversione delle funzioni e al calcolo numerico delle radici reali di una equazione. 73
Carathéodory, C.
Reelle Funktionen. Band I. Zahlen, Punktmengen, Funktionen. 205
Differentiation von Massfunktionen. 304
Carleman, T.
Un problème d'unicité pour les systèmes d'équations aux dérivées partielles à deux variables indépendantes. 55
Carlitz, L.
Sums involving polynomials in a Galois field. 101
A set of polynomials. 324
Carruccio, E.
Estrazione di radice cubica, mediante inserzione di due medie proporzionali fra due segmenti dati, in Leonardo Pisano. 130
Carslaw, H. S. and Jaeger, J. C.
Problem in conduction of heat. 77
Cartan, E.
Familles remarquables d'hypersurfaces isoparamétriques dans les espaces sphériques. 28
Cartan, H.
Un théorème sur les groupes ordonnés. 43
Maxima des dérivées successives d'une fonction. 297
Matrices holomorphes de n variables complexes. 312
Cartan, H. and Dieudonné, J.
Notes de tératopologie. III. 107
Cartan, H. and Mandelbrojt, S.
Solution du problème d'équivalence des classes de fonctions indéfiniment dérivables. 297
Casale, F.
Una equazione collegata a quella di Keplero. I, II. 126
Cassina, U.
Formole sommatorie e di quadratura con l'ordinata media. 74
Curva di Peano in base due. 109
Formole sommatorie e di quadratura ad ordinate estreme. 143
Estensione del teorema di Rolle al calcolo delle differenze. 143
Castoldi, L.
Alcuni casi in cui il trasporto per parallelismo di un vettore superficiale è un trasporto parallelo nello spazio ambiente. 175
Funzione hamiltoniana e l'energia totale di un sistema dinamico. 182
Cattaneo, C.
Libera caduta di un solido pesante con riguardo alla rotazione terrestre. 182
Cauer, W.
Poissonsches Integral und seine Anwendungen auf die Theorie der linearen Wechselstromschaltungen. 350
Cerf, G.
Équations linéaires aux dérivées partielles et la méthode de la variation des constantes. 120
Cernov, N. M.
Surfaces congruentes à leurs parallèles. 269
Cesari, L.
Teorema di densità in senso forte. 304
Cesco, R. P.
Linear transformations and the summation of divergent series. 218
Chand, H.
Generalizations of Cauchy's condensation and integral tests. 10
Chandrasekhar, S.
Dynamics of stellar systems. I–VIII. 60
Chang, T. S.
Number of configurations of an assembly with long-distance order. 276
Chanler, J. H.
Invariant theory of the ternary trilinear form. 35
Chapman, S. and Cowling, T. G.
Mathematical theory of non-uniform gases. 187
Char, V. R. Thiruvenkata. See Thiruvenkata Char.
Charpentier, M.
Certaines courbes fermées et leurs bouts premiers. 318
Châtelet, F.
Points exceptionnels d'une cubique de Weierstrass. 166
Groupe exceptionnel d'une classe de cubiques. 166
Chatley, H.
Ancient Chinese astronomy. 130
Egyptian celestial diagram. 289
Chaundy, T. W.
Hypergeometric partial differential equations. III. 119
Chazy, J.
Sur une loi corrective de la loi de Newton. 20
Méthode de la variation des constantes en mécanique céleste. 282
Chern, S.-S.
Géométrie d'un système d'équations différentielles du second ordre. 145
Cherubino, S.
Identità birazionale di due curve algebriche. 82
Indice di Kronecker pei cicli analitici sulle Riemanniane delle curve algebriche. 267
Chiellini, A.
Integrazione dell'equazione $Y^{(n)}+P_n(x)Y=0$. 178
Equazione differenziale lineare soddisfatta dal prodotto di integrali di un'equazione differenziale lineare del 2° ordine. 178
Child, J. M. See Barnard, S.
Chlodovsky, I.
Fonctions presque absolument monotones. 332
Chogoshvili, G. S.
Level surfaces and domains of smaller values of a function defined on a bounded manifold. 320
Choquet, G.
Homéomorphies. 220
Chou, P. Y.
Method of finding isotropic static solutions of Einstein's field equations of gravitation. 125
Chow, W.-L.
Systeme von linearen partiellen Differentialgleichungen erster Ordnung. 313
Church, A.
Concept of a random sequence. 149
Formulation of the simple theory of types. 321
Churchill, R. V.
Problem of temperatures in a nonhomogeneous bar with discontinuous initial temperatures. 57

Cicco, J. De. See De Cicco.
Cimmino, G.
Equazione di Poisson e problema generalizzato di Dirichlet. 314
Cisotti, U.
Distribuzione degli sforzi e dei momenti interni nelle verghe rigide. 287
Stati di tensione sulle sezioni interne dei solidi rigidi. 287
Invarianti ed eminvarianti lineari dei tensori. 325
Clarkson, J. A. See Adams, C. R.
Coble, A. B.
Configurations defined by theta functions. 27
Coburn, N.
V_m in S_n with planar points ($m \geqq 3$). 88
Generalized Einstein hypersurfaces of spaces of constant curvature. 271
Cochran, W. G.
Approximate formula for the significance levels of z. 249
Cohen, L. W.
Mean ergodic theorem. 339
Cole, N.
Index theorem for a calculus of variations problem in which the integrand is discontinuous. 243
Coleman, A. J.
Curves on a surface. 269
Collar, A. R.
Reciprocation of certain matrices. 1
Collatz, L.
Genäherte Berechnung von Eigenwerten. 76
Colucci, A.
Polinomi definiti e le equazioni algebriche a coefficienti complessi. 97
Conforto, F.
Complemento all'equazione dei tre momenti per una trave continua inflessa e sollecitata assialmente. 189
Constantinescu, G. G.
Integral solutions of the equation $\sum_{i=1}^{n}\sum_{j=1}^{n}a_{ij}x_ix_j=0$. 65
Conte, L.
Dalla "sezione del cono" de Sereno. III. 289
Cooke, R. H.
Taylor series for which $\lim_{n\to\infty} a_{n+1}/a_n=1$. 306
Cooper, J. L. B.
Absolute Cesàro summability of Fourier integrals. 51
Cooper, R.
Transformations of enumerable sets which are dense in an interval. 107
Copson, E. T. See Baker, B. B.
Corliss, J. J.
Upper limits to the real roots of a real algebraic equation. 1
Cornish, E. A.
Estimation of missing values in quasi-factorial designs. 348
Cornish, R. J.
Magnitude of the direct stress in a beam of fixed span. 189
van der Corput, J. G.
Un certain système de congruences. I, II. 39, 65
Inégalité relative au nombre des diviseurs. 41
Quelques fonctions arithmétiques élémentaires. 66
Un lemme de M. Vinogradow. 66
van der Corput, J. G. and Pisot, C.
Discrépance modulo un. II, III. 66
Problème de Waring généralisé. III. 69
Cossar, J.
Conjugate functions. 52
Courant, R.
Conformal mapping of multiply connected domains. 111
Soap film experiments with minimal surfaces. 270
Courant, R. and Davids, N.
Minimal surfaces spanning closed manifolds. 244
Cowden, D. J. See Croxton, F. E.
Cowling, T. G. See Chapman, S.
Cox, G. M.
Enumeration and construction of balanced incomplete block configurations. 991
Coxeter, H. S. M.
Method for proving certain abstract groups to be infinite. 258
Craig, C. C.
Product semi-invariants of the mean and a central moment in samples. 346
Craig, H. V.
Extensors and a Euclidean basis for higher order spaces. 29
Cramér, H.
Representation of a function by certain Fourier integrals. 13
Theory of stationary random processes. 150
Crout, P. D.
Application of polynomial approximation to the solution of integral equations arising in physical problems. 127
Croxton, F. E. and Cowden, D. J.
Applied general statistics. 151
Crum, M. M.
Inversion formulae. 228
Some Dirichlet series. 294
Császár, E.
Einfache Begründung der wellenmechanischen Störungsrechnung. 351

Daly, J. F. (Cf. Wilks, S. S.)
Unbiased character of likelihood-ratio tests for independence in normal systems. 347
Dantzig, G. B.
Class of distributions that approach the normal distribution function. 21
Non-existence of tests of "Student's" hypothesis having power functions independent of σ. 348
van Dantzig, D. (Cf. Schouten, J. A.)
Phenomenological thermodynamics of moving matter. 96
Relativistic thermodynamics. 96
Relativistic gas theory. 96
Darlington, S.
Synthesis of reactance 4-poles which produce prescribed insertion loss characteristics including special applications to filter design. 275
Dasgupta, H. K.
Stabilité de deux files de tourbillons dans un canal de largeur finie. 186
Dasgupta, P. N.
Linear complexes related to a group of six points in 3-space. 262
Davenport, H.
Waring's problem for cubes. 5
Character sums in finite fields. 41
Waring's problem for fourth powers. 42
Linear fractional substitutions with large determinant. 295
Davenport, H. and Erdös, P.
Sums of positive integral kth powers. 5
David, F. N.
Neyman's "smooth" test for goodness of fit. I. 153
Davids, N. See Courant, R.
Davies, E. T.
Lie derivation in generalized metric spaces. 176
Davis, A. W.
Differentiability and continuity properties of solutions of certain partial differential equations of applied mathematics. 76
Dean, W. R.
Distortion of a curved tube due to internal pressure. 190
Deaux, R.
Homographies racines carrées d'une homographie ternaire. 262
Réciprocités racines carrées d'une homographie ternaire. 263
Debye, P.
Untersuchung eines neuen Vorschlags zur Fourier-Analyse von Elektronenaufnahmen. 127

De Cicco, J. (Cf. Kasner, E.)
Differential geometry of series of lineal elements. 84
Analogue of the Moebius group of circular transformations in the Kasner plane. 84
Analog of the nine-point circle in the Kasner plane. 169
Geometry of fields of lineal elements. 170
Dedebant, G., Moyal, J. and Wehrlé, P.
Équations aux dérivées partielles que vérifient les fonctions de distribution d'un champ aléatoire. 246
De Donder, T.
L'énergétique déduite de la mécanique statistique générale. 192
de Finetti, B. See Finetti.
Defrise, P.
Certaines involutions sans points multiples appartenant à une courbe algébrique. 266
Dehn, M.
Ueber Ornamentik. 131
Dehn, M. and Hellinger, E.
On James Gregory's Vera Quadratura. 33
de Kerékjártó, B. See Kerékjártó.
Delange, H.
Convergence des séries de polynomes de la forme $\sum a_n P_n(z)$ et certaines suites de polynomes. 310
Delaporte, P.
Méthode d'analyse des corrélations et son application. 63
Delens, P.
Nouvelles acquisitions de la géométrie du tétraèdre. 80
de Losada y Puga, C. See Losada.
DeLury, D. B.
Representation of numbers by the indefinite form $ax^2+by^2+cz^2+dt^2$. 68
de Mira Fernandes, A. See Mira Fernandes.
Denissuk, U. N.
Méthodes analytiques de la corrélation approximée et les problèmes fonctionnels correspondants. 255
Denjoy, A.
Séries de Taylor admettant leur cercle de convergence comme coupure essentielle. 9
Topological and metrical points of view in the theory of sets and functions of real variables. 109
Totalisation des séries. 207
Totalisation simple des fonctions ramenée à celle des séries. 208
Exemples de séries trigonométriques non sommables. 225
Séries de Taylor admettant leur cercle de convergence comme coupure. 306
de Rham, G. See Rham.
Derksen, J. B. D.
Some infinite series introduced by Tschuprow. 152
Derry, D.
Finite abelian p-groups. 103
A conjecture of Minkowski. 103
Despujols, P.
Forces élastiques autour d'une galerie horizontale de section circulaire. 121
de Vries, G. See Vries.
de Wet, J. S. See Wet.
Dickinson, D. R.
Derivation of discontinuous functions. 47
On Tchebycheff polynomials. 143
Dickson, L. E.
New first course in the theory of equations. 1
All integers except 23 and 239 are sums of eight cubes. 5
Modern elementary theory of numbers. 65
Dienes, Z. P.
Canonic elements in the higher classes of Borel sets. 8
Dieudonné, J. (Cf. Cartan, H.)
Exemple d'espace normal non susceptible d'une structure uniforme d'espace complet. 30
L'aspect qualitatif de la théorie analytique des polynomes. 37
Espaces topologiques susceptibles d'être munis d'une structure uniforme d'espace complet. 108
Espaces uniformes complets. 220
Dieulefait, C. E.
Poisson-Charlier series. 143
On incomplete moments. 245
Momenti delle distribuzioni ipergeometriche. 340
Dilworth, R. P. (Cf. Ward, M.)
Non-commutative residuated lattices. 37
Complemented modular lattices. 197
Dines, L. L. See Moskovitz, D.
Dinghas, A.
Werteverteilung einer Klasse transzendenter Funktionen. 113
Geometrische Anwendungen der Kugelfunktionen. 265
Din Shukla, P. See Shukla.
Dirac, P. A. M.
Théorie de l'électron et du champ électromagnétique. 94
New notation for quantum mechanics. 146
Ditkin, V.
Structure of ideals in certain normed rings. 336
Dittrich, A.
Finsternistafel des Dresdener Maya-Kodex. 130
Dive, P.
Rotations barotropes dans un astre fluide dont la stratification est ellipsoïdale en seconde approximation. 282
Dodd, E. L.
Length of the cycles which result from the graduation of chance elements. 23
Substitutive mean and certain subclasses of this general mean. 345
Doeblin, W.
Un problème de calcul des probabilités. 149
Certains mouvements aléatoires discontinus. 247
Équation de Kolmogoroff. 343
Équation matricielle $A^{(t+s)}=[A^{(t)}A^{(s)}]$ et ses applications au calcul des probabilités. 343
Doetsch, G.
Eigenwerte und Eigenfunktionen von Integraltransformationen. 228
Zusammenhang zwischen Randwertproblemen verschiedenen Typs. 314
Dolaptschiew, B.
Zylinderkurven. 300
Domínguez, A. González. See González Domínguez.
Donder, T. De. See De Donder.
Doob, J. L.
Regularity properties of certain families of chance variables. 343
Law of large numbers for continuous stochastic processes. 344
Douglas, J.
Green's function and the problem of Plateau. 19
Most general form of the problem of Plateau. 19
Solution of the inverse problem of the calculus of variations. 78
Analytic prolongation of a minimal surface across a straight line. 244
Theorems in the inverse problem of the calculus of variations. 244
Geometry of polygons in the complex plane. 261
Drach, J.
Un problème relatif aux formes différentielles linéaires. 178
Dragoni, G. Scorza. See Scorza Dragoni.
Dramba, C.
Singularités imaginaires du problème isoscèle plan des trois corps. 183
Dresden, A.
Introduction to the calculus. 299
Dressel, P. L.
Statistical seminvariants and their estimates with particular emphasis on their relation to algebraic invariants. 249
van Driel, M.-J.
Magic squares (and supplement). 290

Droste, H. W.
Ein Satz der Laplaceschen Funktionentransformation über die Aufteilung in Dauer- und Ausgleichsvorgang bei Gleich- und Wechselstrom und der Ausgleichssatz der komplexen Umwandlung. 180
Lösung angewandter Differentialgleichungen mittels Laplacescher Transformation. 234
Dube, G. P. See Levine, S.
Dubourdieu, M. J.
Théorème de M. S. Bernstein relatif à la transformation de Laplace-Stieltjes. 73
Dubuque, P.
Généralisation des théorèmes de Frobenius et Weisner. 161
Duffin, R. See Bourgin, D. G.
Duffin, R. J. and Schaeffer, A. C.
Extension of a functional inequality of S. Bernstein to non-analytic functions. 205
Dunford, N.
A mean ergodic theorem. 18
Dunford, N. and Pettis, B. J.
Linear operations among summable functions. 57
Linear operations on summable functions. 338
van den Dungen, F.-H.
Nouvelle définition des partiels. 56
Dushnik, B. and Miller, E. W.
Concerning similarity transformations of linearly ordered sets. 318
Du Val, P.
Unloading problem for plane curves. 266
Dwyer, P. S.
Cumulative numbers and their polynomials. 345
Dyer-Bennet, J.
Theorem on partitions of the set of positive integers. 201

Eagle, A.
Series for all the roots of the equation $(z-a)^m=k(z-b)^n$. 1
Series for all the roots of a trinomial equation. 1
Easterfield, T. E.
Orders of products and commutators in prime-power groups. 104
Eaton, J. E.
Associative multiplicative systems. 105
Theory of cogroups. 164
Eaton, J. E. and Ore, O.
Remarks on multigroups. 105
Edrei, A.
Déterminants récurrents et les singularités d'une fonction donnée par son développement de Taylor. 210
Efimoff, N.
Arithmetic invariants of a parabolic point of a surface. 269
Eger, M.
Jacobienne d'un système de Pfaff. 55
Egerváry, E.
Orthocentric simplexes. 157
Egger, H.
Besondere Seilkurven. 73
Eichler, M.
Allgemeine Integration einiger partieller Differentialgleichungen der mathematischen Physik durch Quaternionenfunktionen. 237
Eidelheit, M.
Rings of continuous functions. 240
Eilenberg, S.
Cohomology and continuous mappings. 222
A theorem of P. A. Smith concerning fixed points for periodic transformations. 319
Einaudi, R.
Moto di una sfera elastica. 316
Metodo risolutivo in un dominio sferico del problema misto per l'equazione delle onde. 316
Problema misto per l'equazione delle onde. 316

Einstein, A.
Stationary system with spherical symmetry consisting of many gravitating masses. 61
Einstein, A. and Infeld, L.
Gravitational equations and problem of motion. II. 283
Eisenhart, C.
A priori information. 152
Elsholz, L.
Länge einer Mannigfaltigkeit und ihre Eigenschaften. 317
Theorie der Invarianten, die zur Bestimmung der unteren Grenze der Anzahl der kritischen Punkte einer stetigen Funktion, die auf einer Mannigfaltigkeit bestimmt ist, dienen können. 319
Änderung der Bettischen Zahlen der Niveauflächen einer stetigen Funktion, die auf einer Mannigfaltigkeit definiert ist. 320
Emch, A.
New point configurations and algebraic curves connected with them. 82
Properties of plane elliptic cubics and pencils of cubics derived by the quadratic transformation. 266
Epstein, L. F.
Function related to the series for e^{e^z}. 10
Erdélyi, A.
Integration of a certain system of linear partial differential equations of hypergeometric type. 55
Integraldarstellungen für Produkte Whittakerscher Funktionen. 116
Transformation of hypergeometric integrals by means of fractional integration by parts. 117
Transformation of a certain series of products of confluent hypergeometric functions. 117
Two infinite integrals. 231
Erdös, P. (Cf. Davenport, H.)
Products of consecutive integers. I, II. 4, 39
Smoothness of the asymptotic distribution of additive arithmetical functions. 41
Integers of the form x^k+y^k. 42
Family of symmetric Bernoulli convolutions. 52
Smoothness properties of a family of Bernoulli convolutions. 139
Difference of consecutive primes. 292
Extremal properties of the derivatives of polynomials. 323
Distribution of normal point groups. 333
Erdös, P. and Grünwald, T.
Polynomials with only real roots. 1
Erdös, P. and Turán, P.
Uniformly-dense distribution of certain sequences of points. 217
On interpolation. III. 333
Erdös, P. and Wintner, A.
Additive arithmetical functions and statistical independence. 40
Erim, K.
Neue Definition des mehrdimensionalen Stieltjesschen Integrals. 208
Ermolowa, O. W.
Dissociation des variables dans une équation à un nombre quelconque de variables. 255
Échelle régulière sur une courbe unicursale et ses applications nomographiques. 256
Ertel, H.
Ein allgemeines Variationsprinzip der Hydrodynamik. 184
Espley, D. C.
Harmonic analysis by the method of central differences. 253
Etherington, I. M. H.
Genetic algebras. 99
Evans, W. D.
Moments of a binomially distributed variate. 247
Everett, C. J., Jr.
Annihilator ideals and representation iteration for abstract rings. 2

Fabre, H.
Solutions périodiques du problème des perturbations. 20
Librations des apsides de certaines orbites peu excentriques. 60
Fahmy, M.
New form of the quantum equation. 190
Fan, K.
Représentation des fonctions abstraites continues. 336
Fano, G.
Remarques à propos d'une note de M. Amin Yasin. 166
Curve ovunque tangenti a una quintica piana generale. 266
Fantappiè, L.
Spazio funzionale analitico come spazio topologico T_0. 317
Farina, M.
Curve piane, algebriche, reali che presentano "massimi d'inclusione." 167
Favard, J.
Sur l'interpolation. 54
Polynomes trigonométriques. 73
Meilleurs procédés d'approximation. 230
Problème traité par MM. Szekeres et B. de Sz. Nagy. 264
Fédoroff, V. S.
Intégrales curvilignes. 306
Fejes, L.
Schmiegungspolyeder. 157
Über einen geometrischen Satz. 263
Approximation durch n-Eckringe. 263
Feldheim, E.
Rectification à la note "un problème de la théorie élémentaire des nombres." 39
Propriétés des lois de probabilité stables. 149
Fonctions génératrices des polynomes de Laguerre et d'Hermite. 231
Développements en série de polynomes d'Hermite et de Laguerre à l'aide des transformations de Gauss et de Hankel. I, II, III. 232
Nuova dimostrazione e generalizzazione di un teorema di calcolo delle probabilità. 246
Feller, W.
Grundlagen der Volterraschen Theorie des Kampfes ums Dasein in wahrscheinlichkeitstheoretischer Behandlung. 22
Completely monotone functions and sequences. 52
Neuer Beweis für die Kolmogoroff-P. Lévysche Charakterisierung der unbeschränkt teilbaren Verteilungsfunktionen. 149
Logistic law of growth and its empirical verifications in biology. 250
Time distribution of so-called random events. 344
Fériet, J. Kampé de. See Kampé de Fériet.
Fernandes, A. de Mira. See Mira Fernandes.
Ferrar, W. L.
Ratio tests for the convergence of integrals. 300
Ferraro, V. C. A.
Induction of currents in infinite plane current-sheets. 224
Feyer, E.
Fehlerwirkung bei der Ermittlung des Uhrstandes durch Aufnahme von Koinzidenzzeitsignalen. 128
Fiala, F.
Inégalité isopérimétrique sur les surfaces ouvertes à courbure positive. 158
Ficken, F. A.
Riemannian and affine differential geometry of product-spaces. 88
Fierz, M.
Drehimpuls von Teilchen mit Ruhemasse null und beliebigem Spin. 352
Fierz, M. and Pauli, W.
Relativistic wave equations for particles of arbitrary spin in an electromagnetic field. 190
de Finetti, B.
Compte rendu critique du colloque de Genève sur la théorie des probabilités. 148
Finikoff, S.
Déformation à réseau conjugué persistant et problèmes géométriques qui s'y rattachent. 28
Déformation projective d'une configuration (T). 173
Finsler, P.
Darstellung und Anzahl der Freisysteme und Freigebilde. 168
Fischer, I. C.
Projective constructions for certain algebraic curves. 267
Fischer, K.
Beiträge zur Tarifanalyse. 251
Fisher, R. A.
Fiducial inference. 153
Sampling distribution of some statistics obtained from non-linear equations. 248
Similarity of the distributions found for the test of significance in harmonic analysis, and in Steven's problem in geometrical probability. 347
Examination of the different possible solutions of a problem in incomplete blocks. 348
Fitch, F. B.
Modal functions. 131
Hypothesis that infinite classes are similar. 131
Fitting, F.
Pandiagonale Quadrate von $(4m)^2$ Feldern. 39
Carrés panmagiques de n^4 cases pour toute valeur de n impair. 133
Flexner, W. W.
Generality of finite abstract complexes. 106
Character group of a relative homology group. 163
Fock, V. A.
Mouvement des masses finies d'après la théorie de gravitation einsteinienne. 183
Fogels, E.
Möglichkeit diophantischer Gleichungen in relativ quadratischen Zahlenkörpern. 291
Average values of arithmetical functions. 293
Fokker, A. D.
Hamilton's canonical equations for the motion of wave groups. 95
Fon, T.-C.
Projective differential geometry of space curves. 87
Foradori, E. (Cf. March, A.)
Theorie des Carathéodoryschen Integrales. 304
Teiltheorie und Verbände. 327
Fort, T.
Euler-Maclaurin summation formula. 50
Fortet, R.
Théorèmes relatifs au calcul du rayon polaire d'une opération linéaire. 58
Espaces uniformément convexes. 335
Foulkes, H. O.
Canonical matrix roots of equations. 194
Fourcade, H. G.
Projection method of mapping from air photographs. 128
Foussianis, C.
Determinanten aus S-Funktionen. 323
Fowler, R. H. and Guggenheim, E. A.
Statistical thermodynamics. 192
Statistical thermodynamics of super-lattices. 192
Fox, C.
A class of Fourier kernels. 51
Fox, R. H.
Homotopy and extension of mappings. 222
Frame, J. S.
Decomposition of transitive permutation groups generated by the symmetric group. 161
Franchetta, A.
Esempi di superficie canoniche. 83
Franckx, E.
Théorie des chaînes de Markoff. Étude du cas régulier. 342
Capitali di sopravvivenza. 349

Frank, B.
Abgekürzte Drehschwingungsrechnungen mit Hilfe der Ersatzmasse und Ersatzkraft. 288
Frank, M. L.
Nomogramme pour l'équation complète du 4e degré. 253
Frankel, A. See Kullback, S.
Frankel, L. R. See Stock, J. S.
Franklin, P.
Four color problem. 316
Fréchet, M.
Note on the "problème des rencontres." 62
Intégration d'un système canonique d'équations différentielles linéaires à coefficients discontinus. 178
Compléments à un théorème de T. S. Broderick concernant les événements dépendants. 245
Conditions d'existence de systèmes d'événements associés à certaines probabilités. 245
Définition intrinsèque de l'aire d'une surface courbe comme limite d'aires polyèdrales inscrites. 305
Frenkel, J. and Kontorova, T.
Theory of plastic deformation and twinning. 190
Freudenthal, H.
Triangulation der differenzierbaren Mannigfaltigkeiten. 106
Friedge, H.
Verallgemeinerung der Dodekaederräume. 220
Friedman, M.
Comparison of alternative tests of significance for the problem of m rankings. 348
Friedrichs, K. and Horvay, G.
Finite Stieltjes momentum problem. 13
Friedrichs, K. O. and Stoker, J. J.
Non-linear boundary value problem of the buckled plate. 91
Frola, E.
Estensione dei teoremi di Castigliano alla dinamica. 188
Fubini, G.
Cauchy's integral theorem and the law of the mean for non-derivable functions. 205
Property of W-congruences. 271
Fuchs, B. A.
Invariant Riemannian metrics in the theory of pseudo-conformal mappings and its applications. 50
Eigenschaft der bei pseudokonformen Abbildungen invarianten Metrik. 215
Pseudo-conformal mappings of a region in itself with a fix-point on the boundary. 311
Fuchs, W. H. J. and Wright, E. M.
'Easier' Waring problem. 69
Fues, E.
Ausbreitungsfläche skalarer Wellen im gitterartigen Medium. 93
Fueter, R.
Über einen Hartogs'schen Satz. 115
Vierfachperiodische Funktionen. 115
Fujiwara, M.
Miscellaneous notes on the history of Wazan, the old Japanese mathematics. I, II, III, IV. 130, 289
Asymptotic expansions in the Heaviside's operational calculus. 180
Miscellaneous notes on the history of Chinese mathematics. I, II. 289
Fukamiya, M.
Dominated ergodic theorems in L_p ($p \geqq 1$). 148
Lipschitz condition of random function. 149
Fuks, B. A. See Fuchs.
Fulton, D. G.
Further generalizations of the Cauchy integral formula. 72

Gambier, B.
Couples de tétraèdres de Möbius. 80
Cercles perpendiculaires et un paradoxe relatif aux imaginaires. 157
Surfaces admettant plusieurs réseaux conjugués coniques. 269
Ganapathy Iyer, V.
Phragmén-Lindelöf theorem in the critical angle. 49
Certain functional equations. 181
Gandin, R.
Problema di geometria numerativa ed alla sua interpretazione funzionale. 268
Gandz, S.
Studies in Hebrew mathematics and astronomy. 129
Ganguly, H. K.
Permanency of configurations of rotating fluids with spheroids as surfaces of discontinuity of density. 184
Gantmacher, F.
Canonical representation of automorphisms of a complex semi-simple Lie group. 163
Garabedian, H. L.
Sufficient condition for Cesàro summability. 11
Hausdorff matrices. 11
Theorems associated with the Riesz and the Dirichlet's series methods of summation. 219
García, G.
General solution of the ballistic problem, taking into account the corrections for the sphericity of the planet, the density of the medium, gravity and the effect of the wind. 182
Influence of the rotation of the planet on the movement of a projectile in a resisting medium. 182
García, G. and Rosenblatt, A.
Formule de Stokes dans la théorie de la gravité. 184
Garnier, R.
Transformation des dérivées secondes dans les transformations de contact et les transformations ponctuelles. 260
Garten, V.
Beziehungen zwischen den Hölderschen und Laplace-Abelschen Mittelbildungen und dem Satz von O. Hölder. 218
Ungleichungen zwischen den Hauptlimites der von Herrn Karamata untersuchten iterierten Mittelbildungen bei drei aufeinanderfolgenden Ordnungen. 219
Geary, R. C.
Mathematical expectation of the mean square contingency when the attributes are mutually independent. 248
Gégalkine, I.
Entscheidungsproblem. 322
Geiringer, H.
Wahrscheinlichkeit nicht unabhängiger Ereignisse. 62
Gelfand, I.
Theory of normed rings. II, III. 330, 331
One-parametrical groups of operators in a normed space. 338
Gelfond, A.
Divisibilité de la différence des puissances de deux nombres entiers par une puissance d'un idéal premier. 292
Approximation du rapport des logarithmes de deux nombres algébriques au moyen de nombres algébriques. 295
Taylor series associated with an integral function. 307
Gentry, F. C.
Cremona involutions determined by a pencil of surfaces. 26
George, E.
Topologie regulärer Kurvenscharen. 29
Geppert, H.
Einige Kennzeichnungen des Kreises. 264
Geppert, M.-P.
Una classe di distribuzioni in due variabili casuali. 246
Eine Klasse von zweidimensionalen Verteilungen. 340
Gericke, H.
Stützbare Flächen und ihre Entwicklung nach Kugelfunktionen. 169
Germay, R. H. J.
Généralisation de l'équation de Hesse. 16
Propriété résultant de l'interversion des valeurs initiales et des variables indépendantes dans certaines fonctions associées aux solutions des systèmes complètement intégrables d'équations aux différentielles totales à coefficients linéaires. 119

Germay, R. H. J. (Continued)
Extension, aux systèmes complètement intégrables d'équations aux différentielles totales, d'un théorème de M. E. Picard relatif aux systèmes normaux d'équations différentielles. 145
Systèmes complètement intégrables d'équations aux différentielles totales. 178
Gil, J. Varela. See Varela Gil.
Gillespie, R. P.
Integration. 46
Ginsburg, V. L.
Quantum electrodynamics. I. 351
Giraud, G.
Nouvelle méthode pour traiter certains problèmes relatifs aux équations du type elliptique. 56
Classe d'équations linéaires ou figurent des valeurs principales d'intégrales simples. 145
Cas où un corps pesant tournant, consistant en un noyau solide entouré d'une masse liquide, est en équilibre relatif stable. 185
Petits mouvements relatifs périodiques d'un corps pesant tournant, constitué par un noyau solide immergé dans une masse liquide homogène. 185
Girshick, M. A.
Sampling theory of roots of determinantal equations. 22
Giulotto, V.
Polinomi di Hermite e di Didon nel dominio iperarmonico. 118
Funzioni ultracilindriche. 233
Givens, W.
Factorization and signatures of Lorentz matrices. 195
Glagoleff, N.
Axiomes d'appartenance de la géométrie euclidienne. 132
Gleissberg, W.
New general theorem on the pressure in the interior of the stars. 282
Glivenko, V. I.
Studies on mathematical genetics. I. 348
Gloden, A.
Résolution en nombres entiers du système $A^{kz}+B^{kz}+C^{kz}+D^{kz}=E^z+F^z+G^z+H^z (x=1, 2, 3)$. 5
Système diophantien $x+y+z=u+v+w$, $xyz=uvw$. 39
Méthode de résolution d'équations diophantiennes homogènes du troisième degré. 65
Gnedenko, B. V.
Theory of limit theorems for sums of independent random variables. 341
Theory of the domains of attraction of stable laws. 341
Limiting laws of the theory of probability. 342
Domains of attraction of stable laws. 342
Gnedenko, B. V. and Groshev, A. V.
Convergence of distribution laws of normalized sums of independent random variables. 342
Godefroy, M.
Extension des systèmes différentiels aux espaces métriques. 146
Application d'une méthode directe au problème de L. Lichtenstein. 239
Goldfain, I.
Cas particulier d'une équation intégrale linéaire de Fredholm à noyau non symétrique. 146
Goldstine, H. H.
Minimum problems in the functional calculus. 146
Goldziher, K.
Beitrag zur Bibliographie der politischen Arithmetik seit 1930. 32
Golowin, O. N.
Factors without centres in direct decompositions of groups. 259
Golusin, G. M.
Interior problems of the theory of univalent functions. 49
Iterationsprozesse für konforme Abbildungen mehrfachzusammenhängender Bereiche. 306
Theorie der schlichten Funktionen. 308
Gonseth, F.
Philosophie mathématique. 131
Gontcharoff, M.
Séries d'interpolation généralisant celles de Newton et de Stirling. 334
Gontcharoff, W.
Encore sur le théorème de M. Mandelbrojt. 298
Gonzalez, M. O.
Generalization of Cauchy's formula and its relation to the development in Burmann series. 299
González Domínguez, A.
Representation of functions by Fourier integrals. 226
Good, I. J.
Approximate local monotony of measurable functions. 206
Goodman, N. See Leonard, H. S.
Goodspeed, F. M.
Generalizations of a formula of Ramanujan. 74
Goodstein, R. L.
Rational triangles. 25
Goormaghtigh, R.
Triangles de Poncelet. 155
Gorbounov-Possadov, M. I.
Un type d'équations du cinquième ordre nomographique. 253
Beams and rectangular plates supported by an elastic half-space. 288
Gorélik, G.
Rétroaction retardée. 177
Gorn, S.
Incidence geometry. 165
Gorny, A.
Fonctions dérivables d'une variable réelle. 137
Gorodsky, M.
Construction approximée des nomogrammes à points alignés pour une équation quelconque. 254
Grammel, R.
Gegenstück zum Meissnerschen Verfahren der graphischen Analysis. 253
Gran Olsson, R. and Reissner, E.
Buckling of elastic plates of variable thickness. 288
Graustein, W. C.
Harmonic minimal surfaces. 270
Graves, L. M.
Weierstrass condition for multiple integral variation problems. 19
Green, A. E.
Forces acting on a circular arc aerofoil in a stream bounded by a plane wall. 90
Green, J. W.
Harmonic functions in domains with multiple boundary points. 17
Aspects of the calculus of variations. Notes after lectures by Hans Lewy. 77
Green, L.
Twisted cubics associated with a space curve. 268
Greenhood, E. R., Jr.
Detailed proof of the chi-square test of goodness of fit. 346
Greenwood, J. A. and Greville, T. N. E.
Probability of attaining a given standard deviation ratio in an infinite series of trials. 21
Greville, T. N. E. (Cf. Greenwood, J. A.)
Invariance of the admissibility of numbers under certain general types of transformations. 61
Grioli, G.
Sollecitazioni di una struttura elicoidale incastrata agli estremi. 189
Gröbner, W.
Sistemi di polinomi ortogonali soddisfacenti a date condizioni. 74
Grosberg, J. and Krein, M.
Décomposition des fonctionnelles en composantes positives. 338
Groshev, A. V. See Gnedenko, B. V.

Gross, G. L.
Use of functionals in obtaining approximate solutions of linear operational equations. 181
Grünbaum, S.
Bestimmung von Flächen aus ihrer Normalkrümmung längs einer Schar geodätischer Linien. 85
Gruner, W.
Einlagerung des regulären n-Simplex in den n-dimensionalen Würfel. 195
Grünwald, G.
Summabilitätstheorie der Fourierschen Doppelreihe. 51
Grünwald, T. See Erdös, P.
Guggenheim, E. A. See Fowler, R. H.
Gulasekharam, F. H. V.
Gibbins' triangle. 79
Gumbel, E. J.
Probabilité des hypothèses. 152
Dissection d'une répartition. 247
Gupta, H.
Tables of partitions. 201
Gurr, C. E.
Expression of an infinite lower semi-matrix in terms of its idempotent and nilpotent elements. 195
Gut, M.
Folgen von Dedekindschen Zetafunktionen. 136
Gutiérrez Novoa, L.
Relations of co-Euclidean geometry. 81
Law of duality of sets of points. 109
Gyllenberg, W.
Graphische Lösung einer Integralgleichung. 32

Haantjes, J.
Charakterisierung der konformeuklidischen Räume. 175
Haantjes, J. and Wrona, W.
Konformeuklidische und Einsteinsche Räume gerader Dimension. 89
Hadwiger, H.
Integralgleichung der Bevölkerungstheorie. 154
Umordnungsproblem im Hilbertschen Raum. 242
Umordnung von Reihen reeller Funktionen. 333
Hadwiger, H. and Ruchti, W.
Eine spezielle Klasse analytischer Geburtenfunktionen. 349
Haenzel, G.
Polarentheorie des linearen Strahlenkomplexes und seiner Strahlenkongruenzen. 25
Geometrie und Wellenmechanik. Die Operatoren der Diracschen Wellengleichung, ihre geometrische Struktur und Bedeutung. 262
Hafstad, L. R.
Bartels technique for time-series analysis, and its relation to the analysis of variance. 349
Hagstroem, K. G.
Teoria del deprezzamento. 349
Haldane, J. B. S.
Equilibrium between mutation and random extinction. 250
Mean and variance of χ^2, when used as a test of homogeneity, when expectations are small. 346
Cumulants and moments of the binomial distribution, and the cumulants of χ^2 for a $(n\times 2)$-fold table. 346
Hall, D. W.
Example in the theory of pointwise periodic homeomorphisms. 107
Decomposition of true cyclic elements. 221
Hall, D. W. and Whyburn, G. T.
Arc- and tree-preserving transformations. 319
Halmos, P. R.
Necessary condition for the strong law of large numbers. 62
Halperin, I. (Cf. v. Neumann, J.)
Additivity and continuity of perspectivity. 30
Dimensionality in reducible geometries. 45
Remark on a paper by von Neumann (rings of operators). 338
Hamburger, H.
Beweis einer Carathéodoryschen Vermutung. I. 172
Hancock, H.
Development of the Minkowski geometry of numbers. 67
Hardy, G. H.
Note on a differential equation. 75
Special systems of orthogonal functions. III. 141
Harkink, F.
Brunsviga-Koordinatenmaschine. 127
Harrold, O. G., Jr.
Non-existence of a certain type of continuous transformation. 223
Hartley, H. O.
Recent advances in mathematical statistics. 22
Testing the homogeneity of a set of variances. 346
Hartman, P.
Mean motions and almost periodic functions. 12
Dirichlet series involving random coefficients. 53
Asymptotic formula for exponential integrals. 140
Hartman, P. and Wintner, A.
Asymptotic distributions and the ergodic theorem. 59
Statistical independence and statistical equilibrium. 339
Haseltine, W. R.
Mutual interaction of plasma electrons. 95
Hashimoto, H.
Geometry of a system of partial differential equations of third order. 274
Hasse, H.
Simultane Approximation algebraischer Zahlen durch algebraische Zahlen. 67
Haupt, O.
Kongruenzregelflächen endlicher Ordnung. 82
Geometrische Ordnungen. 169
Haupt, O., Nöbeling, G. and Pauc, C.
Abhängigkeitsräume. 169
Haviland, E. K.
Asymptotic probability distributions and harmonic curves. 63
Hay, G. E.
Method of images applied to the problem of torsion. 21
Heaslet, M. A. See Uspensky, J. V.
Hebroni, P.
Inverses des éléments dérivables dans un anneau abstrait. 2
Lineare Differentialgleichungen in Ringen und ihre Anwendungen auf Integrodifferentialgleichungen. III. 118
Équations différentielles linéaires dans un anneau de certaines matrices continuisées (matrices doubles D_1^2) et leurs applications à certaines équations intégro-différentielles. 118
Hedlund, G. A. (Cf. Morse, M.)
New proof for a metrically transitive system. 242
Heidel, W. A.
The Pythagoreans and Greek mathematics. 129
Heinrich, G.
Resonanzschwingungen eines Systems bei vektorieller Überlagerung der erregenden Impulse. 24
Heins, M. H.
Extremal problems for functions analytic and single-valued in a doubly-connected region. 114
Hellinger, E. See Dehn, M.
Hellmich, K.
Funktionen, deren Werte Mengen sind. 336
Helmer, O.
Theorems of the Picard type. 307
Divisibility properties of integral functions. 307
Hermes, H. and Köthe, G.
Theorie der Verbände. 99
Herzberger, M.
Normal systems with two caustic lines. I, II. 24, 349
Image errors of the fifth order in rotationally symmetrical systems. 24

Herzig, A.
Winkelderivierte und das Poisson-Stieltjes-Integral. 213
Heuser, P.
Theorie der Faberschen Polynomreihen. 14
Hibbert, L.
Propriétés de la fonction harmonique log R définie sur le cercle-unité par des suites particulières de ses valeurs. 56, 122
Faisceaux de courbes $V=\text{const.}$ des fonctions entières. 211
Propriétés des faisceaux $f(\overline{V}, \overline{bc})$ de parcours négatifs V des fonctions entières. 211
Notion de cassure au point singulier essentiel des courbes d'égal module et d'égal argument. 307
Hill, E. L. See Jauch, J. M.
Hill, J. D.
Perfect summability of double sequences. 219
Hille, E.
Séries associées à une série d'Hermite. 141
Theory of Hermitian series. I, II. 141, 142
Hilmy, H.
Récurrence ergodique dans les systèmes dynamiques. 339
Hirsch, G.
Détermination d'un nombre minimum de points fixes pour certaines représentations. 317
Hirsch, K. A.
Skew-groups. 7
Hitchcock, F. L.
Algebraic equations with complex coefficients. 31
Hjelmslev, J.
Hieronymus George Zeuthen. 130
La géométrie sensible. I. 322
Hlavatý, V.
Differentialgeometrie der Kurven und Flächen und Tensorrechnung. 27
Hoel, P. G.
Errors involved in evaluating correlation determinants. 248
Hofmann, J. E.
Weiterbildung der logarithmischen Reihe Mercators in England. II. 33
Neuer Beweis des Morleyschen Satzes. 79
Hoheisel, G.
Über Charaktere. 104
Høiland, E.
Interpretation and application of the circulation theorems of V. Bjerknes. 20
Hokari, S.
Geometry of connections in an abstract space. 176
Neue Behandlung der Geometrie des Systems der gewöhnlichen Differentialgleichungen höherer Ordnung. 273
Hölder, E.
Infinitesimale Berührungstransformationen der Variationsrechnung. 78
Hollcroft, T. R.
Anomalous plane curve systems associated with singular surfaces. 267
Hombu, H.
Theory of paths of higher order and its application. 176
Hopf, E.
Randbemerkungen zu einigen Existenzsätzen der Differentialgeometrie. 172
Statistik der geodätischen Linien in Mannigfaltigkeiten negativer Krümmung. 243
Hopkins, C.
Rings with minimal condition for left ideals. 2
Extension of a theorem of Remak. 6
Horn, J.
Hypergeometrische Funktion zweier Veränderlichen. 17
Hornich, H.
Transzendente Integrale erster Gattung. 49
Allgemeine Ungleichung für Kurven. 158, 264
Horvay, G. See Friedrichs, K.
Hosokawa, T. See Mimura, Y.
Houston, W. V.
Acceleration of electrons in a crystal lattice. 191
Howell, W. T.
Laguerre polynomials. 116
Some formulae for the product of two Whittaker functions with different arguments. 116
Solution of some partial differential equations in the finite domain. 120
Howland, R. C. J. and Knight, R. C.
Stress functions for a plate containing groups of circular holes. 189
Hoyle, F.
Quantum electrodynamics. I, II. 94
Hsu, C. T. and Lawley, D. N.
Derivation of the fifth and sixth moments of the distribution of b_2 in samples from a normal population. 346
Hsu, P. L.
Distribution of roots of certain determinantal equations. 248
Hulme, H. R.
Integration of the equation of the formation of absorption lines. 93
Humbert, P.
Courbes planes de l'espace attaché à l'opérateur Δ_3. 172
Hünke, A.
Flächen konstanter Krümmung in Räumen konstanter Krümmung. 172
Huntington, E. V.
Stirling's formula with remainder. 300
Husimi, K.
Asymptotic distribution of frequencies of a Hohlraum and the surface tension of an ideal gas. 224
Huxley, L. G. H.
Propagation of electromagnetic waves in an atmosphere containing free electrons. 350
Hyers, D. H.
Pseudo-normed linear spaces and abelian groups. 58
Locally bounded linear topological spaces. 318
Hylleraas, E. A.
Schwingungen eines stabil geschichteten, durch Meridiane begrenzten Meeres. 90
Hyslop, J. M.
Absolute summability of the successively derived series of a Fourier series and its allied series. 139
Theorems on absolute Cesàro summability. 218

Ibraguimoff, I.
Systèmes complets de fonctions analytiques. 310
Iglisch, R.
Lineare Integralgleichungen mit vom Parameter abhängigem Kern. 238
Ignatovskij, W. S.
Beugung an einem Spalt, resp. Streifen. I, II. 350
Iguchi, S.
Erzwungene Schwingungen der allseitig eingespannten rechteckigen Platte. 189
Inagaki, T.
Problème de Souslin dans les espaces abstraits. 301
Espaces abstraits et ensembles ordonnés. 301
Ince, E. L.
Integration of ordinary differential equations. 54
Infeld, L. See Einstein, A.
Infeld, L. and Wallace, P. R.
Equations of motion in electrodynamics. 274
Inoue, M.
Approximation des fonctions continues par des fonctions harmoniques. II. 230
Ionesco, D. V.
Applications des propriétés d'une famille de trajectoires. 27
Généralisation d'une propriété mécanique de la chaînette. 28
Généralisation d'une équation fonctionnelle rencontrée par G. Darboux. 299

Ionesco, D. V. (Continued)
Applications d'une formule généralisée de G. Darboux. 299
Application d'une formule de T. J. Stieltjes à un problème de M. D. Pompeiu. 299
Itard, J.
Géométrie de Port-Royal. 290
Iyanaga, S.
Allgemeine Hauptidealformeln. 101
Iyanaga, S. and Kodaira, K.
Almost periodic functions in a group. 330
Iyengar, K. S. K.
New proof of Mehler's formula and other theorems on Hermitian polynomials. 142
New proof of the formula for the generating function of Laguerre polynomials and other related formulae. 143
Test for the completeness (L^2) of a normal orthogonal set and its applications. 332
Iyer, V. Ganapathy. See Ganapathy Iyer.
Izumi, S.
Non-homogeneous ergodic theorem. 148
Abstract integral. I, II. 239, 305
Izumi, S. and Kawata, T.
Notes on Fourier series. IX, X. 138, 225
Certain series of functions. 217

Jackson, D.
Class of orthogonal functions on plane curves. 15
New class of orthogonal polynomials. 53
Jacob, C.
Mouvements lents des fluides parfaits compressibles. 185
Problème de Dirichlet dans un domaine plan multiplement connexe et ses applications à l'hydrodynamique. 283
Jacobson, N.
Application of E. H. Moore's determinant of a Hermitian matrix. 35
Structure and automorphisms of semi-simple Lie groups in the large. 44
Cayley numbers and normal simple Lie algebras of type G. 100
The fundamental theorem of the Galois theory for quasi-fields. 198
Hermitian forms. 325
Jacobsthal, E.
Funktionalgleichung $f(x+y)=f(x)+f(y)$. 182
Jaeger, C. G. (Cf. Carslaw, H. S.)
Class of surfaces applicable to the sphere. 85
Laplace transformation method in elementary circuit theory. 180
Magnetic screening by hollow circular cylinders. 223
Jaffe, D. L.
Modulation circuit theory. 350
James, R. D.
Integers which are not represented by certain ternary quadratic forms. 200
Jarník, V.
Ein p-adischer Übertragungssatz. 136
Bemerkung zur Gitterpunktlehre. 294
Jauch, J. M. and Hill, E. L.
Problem of degeneracy in quantum mechanics. 278
Jeffery, R. L.
Functions of bounded variation and non-absolutely convergent integrals in two or more dimensions. 208
Copeland's definition of a Stieltjes integral. 304
Jeffreys, H.
Minimum χ'^2 approximation. 64
Theory of probability. 151
Random and systematic arrangements. 154
Behrens-Fisher formula. 347
Jehle, H.
Kosmologische Wellenmechanik. III, IV. 283
Jelstrup, G.
Mathematical instruments. 127

Jenks, F. P.
Set of postulates for Bolyai-Lobatchevsky geometry. 261
Jessen, B.
Abstract theory of measure and integration. IV. 110
Volume of polyhedra. 156
Joh, K.
Theorems on "schlicht" functions. IV. 308
Johansen, P.
Iteration von Funktionen zweier reellen Variabeln und einer komplexen Variabeln. 252
John, F.
Special solutions of certain difference equations. 72
Johnsen, L.
Calcul symbolique des pseudocoordonnées. 19
Johnson, L. L.
Diophantine equation $x(x+1)\cdots(x+n-1)=y^k$. 291
Johnson, M. M.
Extension of a covariant differentiation process. 273
Johnson, N. L. and Welch, B. L.
Calculation of the cumulants of the χ-distribution. 153
Applications of the non-central t-distribution. 346
Johnston, L. S.
Fibonacci sequence and allied trigonometric identities. 216
Jonas, H.
Classe notevole di cicli formati da quattro trasformazioni di Laplace nello spazio ordinario. 172
Jones, F. B.
Concerning certain linear abstract spaces and simple continuous curves. 45
Jones, R. C.
Fluctuations in the decay of sound. 118
Jordan, C.
Calculus of finite differences. 74
Problèmes de la probabilité des épreuves répétées dans le cas général. 340
Jørgensen, V.
Corollary to Picard-Landau's theorem. 112
Joseph, J. A.
Coefficients of the expansion of $X^{(n)}$. 32
Jung, H. W. E.
Theorie der algebraischen Funktionen zweier Veränderlicher. II, III. 115, 215

Kac, M.
Characterization of the normal distribution. 62
Almost periodicity and the representation of integers as sums of squares. 136
Problem concerning probability and its connection with the theory of diffusion. 344
Kac, M. and van Kampen, E. R.
Circular equidistributions and statistical independence. 21
Kac, M., van Kampen, E. R. and Wintner, A.
Buffon's problem and its generalizations. 21
Distribution of the values of real almost periodic functions. 53
Ramanujan sums and almost periodic functions. 203
Kakeya, S. and Tsuji, M.
Measure of section of the integral curves. 178
Kakutani, S. (Cf. Yosida, K.)
Mean ergodic theorem in abstract (L)-spaces. 59
Weak topology and regularity of Banach spaces. 59
Characterizations of Euclidean space. 146
Results in the operator-theoretical treatment of the Markoff process. 150
Ergodic theorems and the Markoff process with a stable distribution. 343
Kalmár, L.
Possibility of definition by recursion. 132
Kalscheuer, F.
Bestimmung aller stetigen Fastkörper über dem Körper der reellen Zahlen als Grundkörper. 328

Kaluza, T., jun.
Untersuchung fastperiodischer Funktionen mittels äquidistanter Zahlenmengen. 227
Kamber, F.
Suites de la forme $z=(2x+1)2^y+1$. 133
Kamenetzky, I. M.
Interpolation au moyen des dérivées et sur les procédés d'interpolation correspondants. I. 334
Kamke, E.
Allgemeine Mengenlehre. 46
New proof of Sturm's comparison theorems. 54
Zu meinem Aufsatz "Kritische Bemerkungen zu K. Marbe, Grundfragen der angewandten Wahrscheinlichkeitsrechnung und theoretischen Statistik." 148
Definite selbstadjungierte Eigenwertaufgaben bei gewöhnlichen linearen Differentialgleichungen. I. 179
Entwicklungssatz bei polaren Eigenwertaufgaben. 235
Weinsteins Einschliessungssatz. 235
Kampé de Fériet, J.
Fonctions aléatoires stationnaires et la théorie statistique de la turbulence homogène. 20
van Kampen, E. R. (Cf. Kac, M.)
Asymptotic distribution of a uniformly almost periodic function. 53
Remark on asymptotic curves. 85
Infinite product measures and infinite convolutions. 209
van Kampen, E. R. and Wintner, A.
Limit theorem for probability distributions on lattices. 63
Kanellos, S.
Répétitions dans une suite infinie de tirages. Loi des répétitions. 340
Kanitani, J.
On a such surface with two systems of asymptotic curves that its every tangent plane touches it along a curve. 174
Kantorovitch, L.
Method of successive approximations for functional equations. 18
Kappus, R.
Elastizitätstheorie endlicher Verschiebungen. I, II. 92, 188
Karamata, J.
Tauberscher Satz im Dreikörperproblem. 11
Indexverschiebung beim Borelschen Limitierungsverfahren. 219
Karanicoloff, C. See Tchakaloff, L.
Karas, K.
Platten unter seitlichem Stoss. 288
Karimov, D. K.
Solutions périodiques des équations différentielles non-linéaires du type parabolique. 315
Karpinski, L. C.
Bibliography of mathematical works printed in America through 1850. 290
Kárteszi, F.
Anwendungen einer geometrischen Abbildung. 157
Kasner, E. and De Cicco, J.
Derivative circular congruence-representation of a polygenic function. 48
General trihornometry of second order. 169
Katětov, M.
H-abgeschlossene und bikompakte Räume. 317
Kawada, Y.
Bemerkungen zur Theorie der allgemeinen Kugelfunktionen. 163
Kawada, Y. and Kondô, K.
Idealtheorie in nicht kommutativen Halbgruppen. 164
Kawaguchi, A.
Verallgemeinerung von Extensoren. 87
Views on higher order geometry of connections. II. 176
Kawata, T. (Cf. Izumi, S.)
Proof of a theorem of Hardy and Littlewood concerning strong summability of Fourier series. 139
Non-vanishing of functions and related problems. 330
Kawata, T. (Continued)
Non-vanishing of almost periodic functions. 330
Strong law of large numbers. 340
Keldysh, M. V.
Conformal mappings of multiply connected domains on canonical domains. 48
Keller, E. G.
Beat theory of non-linear circuits. 93
Kelley, J. L.
Fixed sets under homeomorphisms. 29
Metric connected with property *S*. 31
Decomposition of compact continua and related theorems on fixed sets under continuous transformations. 222
Kemble, E. C.
Fluctuations, thermodynamic equilibrium and entropy. 158
Quantum-mechanical basis of statistical mechanics. 159
Kemmer, N.
Particle aspect of meson theory. 95
Kempisty, S.
Fonctions à variation bornée au sens de Tonelli. 8
Fonctions d'intervalle non additives. 207
Aire des surfaces courbes continues. 209
Kendall, M. G.
Properties of *k*-statistics. 347
Kendall, M. G. and Smith, B. B.
Problem of *m* rankings. 23
de Kerékjártó, B.
Inversions dans un groupe commutatif. 162
Kerrich, J. E.
Method of determining the rate of interest involved in a given transaction. 23
Kershner, R.
Number of circles covering a set. 8
Ergodic curves and the ergodic function. 242
Compound interest. 252
Kesava Menon, P.
Properties of binomial coefficients. 181
Keulegan, G. H. and Patterson, G. W.
Mathematical theory of irrotational translation waves. 284
Khintchine, A.
Sommation des suites d'entiers positifs. 201
Croissance locale des processus stochastiques homogènes à accroissements indépendants. 344
Kibble, W. F.
Bessel function in terms of incomplete Gamma functions. 233
Kienast, A.
Asymptotische Darstellung der summatorischen Funktion von Dirichletreihen mit positiven Koeffizienten. 41
Zur Arbeit von Ta Li (allgemeine lineare Differentialgleichung). 75
Killian, K.
Planimeter-Studie. 252
King, R.
Generalized coupling theorem for ultra-high-frequency circuits. 275
Klein-Barmen, F.
Theorie der Gefüge und Vereine. 37
Weitere Verallgemeinerung des Verbandsbegriffes. 327
Kloosterman, H. D.
Tauberian theorems for Cesàro-summability of double series. 219
Klotter, K. and Kotowski, G.
Stabilität der Bewegungen des Pendels mit oszillierendem Aufhängepunkt. 122
Kneser, H.
Merkwürdige Mittelbildung bei algebraischen Gleichungen mit lauter positiven Wurzeln. 36
Majoranten beim Weierstrassschen Vorbereitungssatz. 114
Fundamentalsatz der Algebra und der Intuitionismus. 322
Knight, R. C. See Howland, R. C. J.

Knopp, K.
Darstellung der reellen Zahlen durch Grenzprozesse. 46
Limitierungs-Umkehrsätze für Doppelfolgen. 51
Ko, C. and Lee, H. C.
A theorem on matrices. 324
Further generalization of the Hamilton-Cayley theorem. 324
Kober, H.
Transformationen von algebraischem Typ. 18
Theorem on Banach spaces. 59
Dirichlet's singular integral. 331
Kobold, F.
Einfache Herleitung der Flächenverzerrung, des Vergrösserungsverhältnisses und der Azimutreduktionen bei der winkeltreuen Zylinderprojektion. 155
Kodaira, K. (Cf. Iyanaga, S.)
Kuratowskische Abbildung und der Hopfsche Erweiterungssatz. 106
Fundamental theorems in the theory of operators in Hilbert space. 147
Kodama, S.
Classe quasi-analytique de fonctions de deux variables. I, II, III. 216
Koebe, P.
Iterationstheorie der hyperbolischen Uniformisierungsgrössen vom Geschlecht Null. 114
Koksma, J. F.
Mahlersche Klasseneinteilung der transzendenten Zahlen und die Approximation komplexer Zahlen durch algebraische Zahlen. 137
Asymptotische Verteilung gewisser Zahlfolgen modulo eins. 202
Asymptotische Verteilung eines beliebigen Systems (f_r) von n reellen Funktionen f_r der m ganzzahligen Veränderlichen $x_1, x_2, \cdots, x_m$ modulo Eins. 202
Kolchin, E. R. (Cf. Ritt, J. F.)
Basis theorem for infinite systems of differential polynomials. 118
Kolmogoroff, A.
Inequalities between upper bounds of consecutive derivatives of an arbitrary function defined on an infinite interval. 298
Komatu, A. and Sakata, R.
Ein Problem von Herrn Borsuk. 106
Komischke, A.
Résolution non-algébrique de l'équation générale du dégré n. 193
Kommerell, K.
Beweis eines Fundamentalsatzes der Kurven 3. Ordnung. 166
Kondô, K. See Kawada, Y.
Kondô, M.
Opérations analytiques des fonctions. 240
Extension de la théorie des fonctions de Baire. 241
Représentation paramétrique des ensembles. 302
König, B.
Trigonometrische Entwicklung von $\sum e^{2n\pi ri}/(w+n)^s$. 225
Kontorova, T. See Frenkel, J.
Koopman, B. O.
Axioms and algebra of intuitive probability. 245
Koopmans, T.
Degree of damping in business cycles. 155
Kopal, Z.
Dynamics of double star systems and stellar density condensations. 60
von Koppenfels, W.
Konforme Abbildung besonderer Kreisbogenvierecke. 111
Korselt, A.
Beweis für den Fundamentalsatz der Zahlentheorie. 134
Kosambi, D. D.
Tensor analysis of partial differential equations. I, II. 176, 313
Koshal, R. S.
Maximal likelihood and minimal χ^2 in relation to frequency curves. 249
Kostelianetz, P. See Salgaller, V.
Köthe, G. (Cf. Hermes, H.)
Unendliche Abelsche Gruppen und Grundlagen der Geometrie. 132
Kotowski, G. See Klotter, K.
Kowalewski, G.
Beitrag zur projektiven Differentialgeometrie. 87
Cesàro-Picksche Geometrie. 164
Krasner, M.
Remarque au sujet d'"Une généralisation de la notion de corps." 198
Loi de Jordan-Hölder dans les hypergroupes et les suites génératrices des corps de nombres $\mathfrak{P}$-adiques. 260
Théorème de Fermat. 291
Critère de Sophie Germain-Furtwängler pour le premier cas du théorème de Fermat. 291
Krein, M. (Cf. Grosberg, J.)
Opérations linéaires transformant un certain ensemble conique en lui-même. 337
Krein, M. and Šmulian, V.
Regularly convex sets in the space conjugate to a Banach space. 335
Kriehl, L.
Problem der Rassenvermischung und seine Bedeutung für die dynamische Sterbetafel. 154
Kronrod, A.
Structure de l'ensemble des points de discontinuité d'une fonction dérivable en ses points de continuité. 302
Krull, W.
Arithmetik kommutativer Integritätsbereiche. VII. 37
Funktionaldeterminanten und Diskriminanten bei Polynomen in mehreren Unbestimmten. 102
Allgemeine Modul-, Ring-, und Idealtheorie. 195
Theorie der Polynomideale und Eliminationstheorie. 196
Kruppa, E.
Affine duale Ebene und eine ihr aufgeprägte Massbestimmung in einer Abbildung auf den R_4. 25
Kryloff, W.
Funktionen, die in der Halbebene regulär sind. 308
Krzyżański, M.
Extension de l'opération intégrale de Denjoy aux fonctions de deux variables. 47
Kubo, K.
Die Noetherschen fünf Axiome in kommutativen Ringen. 327
Kubota, T.
Neuer Aufbau der euklidischen Geometrie in der affinen Ebene. 81
Characteristic properties of algebraic figures. 166
van der Kulk, W. (Cf. Schouten, J. A.)
Uebertragungen mit alternierendem Krümmungsaffinor. 88
Kullback, S.
Note on Neyman's theory of statistical estimation. 152
Kullback, S. and Frankel, A.
Simple sampling experiment on confidence intervals. 347
Kunisawa, K.
Abstractly-valued functions in an abstract space. 337
Kun Kuti, M.
Homogene lineare Differentialgleichungen, deren sämtliche Lösungen ganze Funktionen sind. 119
Kunugui, K.
Ensembles boreliens et analytiques. II, III. 301
Un problème de M. E. Szpilrajn. 302
Kuti, M. Kun. See Kun Kuti.
Kuttner, B.
Theorems on Riesz and Cesàro sums. 50

van de Laar, W.
Rotation and translation. 25
Laderman, J. (Cf. Lowan, A. N.)
Distribution of "student's" ratio for samples of two items drawn from non-normal universes. 153

Lagrange, R.
Familles de surfaces de révolution qui possèdent des harmoniques. 238
Lammel, E.
Approximation regulärer Funktionen eines komplexen Argumentes durch rationale Funktionen. 310
Lämmel, R.
Masse und Energie in der speziellen Relativitätstheorie. 124
Lancaster, O. E.
Results concerning the behavior at infinity of real continuous solutions of algebraic difference equations. 181
Landé, A.
Existence and the magnitude of electronic charges. 352
Lane, E. P.
Theorem on surfaces. 170
Lane, E. P. and MacQueen, M. L.
Curves of a conjugate net. 28
Langer, R. E.
Boundary problem of an ordinary linear differential system in the complex domain. 15
Stability of the laminar flow of a viscous fluid. 285
Larguier, E. H.
Matrix theory of n-dimensional measurement. 149
Larkins, J. T., Jr.
Descriptive geometry. 25
Larrea Bancayan, M.
Motion of a projectile in a resisting medium. 182
Laurent-Schwartz.
Propriété de la fonction $m(r, A)$ de M. Nevanlinna dans les fonctions meromorphes. 307
Lauritzen, S.
Theorem on groups of linear substitutions. 257
Lawley, D. N. See Hsu, C. T.
Lebesgue, H.
Conséquences simples de la formule d'Euler. 316
Ledermann, W.
Concerning matrices with variable diagonal elements. 195
Lee, H. C. See Ko, C.
Leemans, J.
Triples de points ayant le même barycentre. 155
Lees, A.
Electron in classical general relativity theory. 183
Lehmann, A.
Inversion des Gaussschen Wahrscheinlichkeits-Integrals. 126
Lehmer, D. H.
Remainders and convergence of the series for the partition function. 69
Lehmer, D. N.
Factor stencils. Revised and extended by John D. Elder. 133
Leighton, W. and Scott, W. T.
General continued fraction expansion. 7
Lekhnitsky, S.
Déformation plane généralisée dans un corps infini anisotrope élastique limité par la surface d'un cylindre parabolique. 287
Lelong, P.
Ordre d'une fonction entière de deux variables. 311
Lengyel, B. A.
Spectral theorem of selfadjoint operators. 146
Testing the hypothesis that two samples have been drawn from a common normal population. 153
Lennard-Jones, J. E., Wilkes, M. V. and Bratt, J. B.
Design of a small differential analyser. 128
Lennertz, J.
Berechnung der Eigenwerte für achsensymmetrische Schwingungen von Hohlzylindern. 91
Lense, J.
Beiträge zur Theorie der isotropen Mannigfaltigkeiten. 168
Lenzen, V. F.
Physical geometry. 34
Leonard, H. S. and Goodman, N.
Calculus of individuals and its uses. 321
Leray, J.
Discussion d'un problème de Dirichlet. 179
Levi, B.
Intuitionistic theory of rational entire functions of one variable. 323
Levi, F. W.
Pairs of inverse moduls. 198
On the fundamentals of analysis. 322
Levi, H.
Values assumed by polynomials. 9
Levine, J.
Groups of motions in conformally flat spaces. II. 89
Levine, S. and Dube, G. P.
Mutual electrical energy of two colloidal particles: General theory, using approximate Debye-Hückel equation. 276
Levitzki, J.
Rings which satisfy the minimum condition for the right-hand ideals. 100
Levy, H.
Conformal invariants in two dimensions. I. 273
Lévy, P.
Mouvement brownien linéaire et mouvement brownien plan. 22
Addition des variables aléatoires définies sur un circonférence. 62
Extensions stochastiques des notions de série, d'intégrale et d'aire. 62
Loi de probabilité analogue à celle de Poisson et un sous-groupe du groupe des lois indéfiniment divisibles. 149
Certains processes stochastiques homogènes. 150
Observations sur le mémoire de M. F. Tricomi: "Sulla frequenza dei numeri interi decomponibili nella somma di due potenze k-esime." 201
Problèmes actuellement irrésolus et sans doute insolubles dans les théories des séries et des intégrales de Fourier. 226
Lewis, D. C., Jr.
Transformation theory of dynamics. 123
Formal power series transformations. 123
Lewis, T.
Equations of motion of point electrons deduced from a variational principle. 352
Lewitan, B.
Verallgemeinerung der stetigen fastperiodischen Funktionen von H. Bohr. 53
Lewy, H. See Green, J. W.
Li, Ta.
Allgemeine lineare Differentialgleichung. 75
Liapounoff, A.
Propriété des δs-opérations. 302
Séparabilité multiple pour le cas de l'opération (A). 302
Lichnerowicz, A.
Nouvelles recherches sur les singularités des espaces-temps extérieurs. 61
Problèmes globaux en mécanique relativiste. 282
Problèmes globaux relatifs au système des équations d'Einstein. 282
Lietzmann, W.
Verhältnis von Definition und Lehrsatzgefüge. 131
Lifschetz, M.
Questions concerning the determinate case of Hamburger's moment problem. 229
Lijn, G. Van der. See Van der Lijn.
Lindemann, F.
Theorie der konformen Abbildung. 306
Löbell, F.
Räumliche Verallgemeinerung des Vierscheitelsatzes. 84
Locatelli, P.
Teorema del minimo lavoro per corpi non perfettamente elastici. 188
Locher, L.
Urphänomene der Geometrie. 80

Locher-Ernst, L.
Geometrisieren im Bereiche wichtigster Kurvenformen. 34
Loève, M.
Nouvelles classes de lois limites. 246
Lombardo-Radice, L.
Algebre legate ai gruppi di ordine finito. II. 258
London, F. and Bauer, E.
Théorie de l'observation en mécanique quantique. 190
Longhi, A.
Involuzioni di ordine n e specie $n-1$ in un campo binario. 267
Loomis, L. H.
Radius and modulus of n-valence for analytic functions whose first $n-1$ derivatives vanish at a point. 308
Lorch, E. R.
Bicontinuous linear transformations in certain vector spaces. 58
Means of iterated transformations in reflexive vector spaces. 242
Lorenzen, P.
Definition durch vollständige Induktion. 7
Abstrakte Begründung der multiplikativen Idealtheorie. 101
Lorey, W.
Eulersches Verfahren zur Wurzelberechnung. 126
Loria, G.
Problema aritmetico che può essere stato risolto dagli antichi Greci. 33
Triangles équilatéraux dérivés d'un triangle quelconque. 79
de Losada y Puga, C.
Theory of singular solutions of differential equations of the first order. 119
Interpolation formula of Stirling deduced from Taylor's series. 144
Losinsky, S.
Procédé d'interpolation de Fejér. 333
Mechanische Quadraturen. 335
Love, A. E. H.
Boussinesq's problem for a rigid cone. 91
Lowan, A. N.
Computation of the second differences of the $\mathrm{Si}(x)$, $\mathrm{Ei}(x)$, and $\mathrm{Ci}(x)$ functions. 32
Correction to "On Green's functions in the theory of heat conduction in spherical coordinates." 76
Problems in the diffraction of heat. 181
Lowan, A. N. and Blanch, G.
Tables of Planck's radiation and photon functions. 252
Lowan, A. N. and Laderman, J.
Distribution of errors in nth tabular differences. 125
Löwenheim, L.
Einkleidung der Mathematik in Schröderschen Relativkalkul. 321
Löwner, K.
Grundzüge einer Inhaltslehre im Hilbertschen Raume. 48
Lukacs, E.
Theorie der Selekttafeln. 252
Lukchin, V. S.
Invariabilité du nombre de fonctions arbitraires dépendant du plus grand nombre d'arguments dans le calcul inverse de la dérivation. 313
Lukomski, J.
Properties of multidimensional distributions. 22
Lury, D. B. De. See DeLury.
Lyche, R. Tambs. See Tambs Lyche.

McCarthy, M. D.
Application of the z-test to randomized blocks. 154
MacColl, L. A.
Geometric aspects of relativistic dynamics. 124
McCoy, N. H.
Theorem on matrices over a commutative ring. 37
Generalization of Ostrowski's theorem on matric identities. 325
McCrea, W. H.
Matrices of quaternions and the representation of Eddington's E-numbers. 325
MacDuffee, C. C.
Modules and ideals in a Frobenius algebra. 100
McEwen, W. H.
Simultaneous approximation of a function and its derivatives by sums of Birkhoff type. 11
McKinsey, J. C. C.
Note on Reichenbach's axioms for probability implication. 61
Proof of the independence of the primitive symbols of Heyting's calculus of propositions. 131
McLachlan, N. W.
Application of the Mellin inversion theorem to impulses. 12
Complex variable and operational calculus with technical applications. 70
MacLane, S. (Cf. Adkisson, V. W.; Becker, M. F.)
Steinitz field towers for modular fields. 3
Universality of formal power series fields. 102
Modular fields. 328
MacLane, S. and Schilling, O. F. G.
Infinite number fields with Noether ideal theories. 4
Zero-dimensional branches of rank one on algebraic varieties. 26
Normal algebraic number fields. 200
MacQueen, M. L. See Lane, E. P.
MacRobert, T. M.
Formulae for generalized hypergeometric functions as particular cases of more general formulae. 117
McShane, E. J.
Uniqueness of the solutions of differential equations. 54
Multipliers for Lagrange problems. 78
Estimate of the Weierstrass $\mathcal{S}$-function. 243
Curve-space topologies associated with variational problems. 244
McVittie, G. C.
Cosmical constant and the structure of the universe. 20

Macaulay-Owen, P.
Parseval's theorem for Hankel transforms. 52
Macintyre, A.
Theorem concerning functions regular in an annulus. 308
Macpherson, R. E.
Canonical systems on a reducible variety. 83
Madhava Rao. B. S.
Quantum-mechanical interpretation of a result concerning Hermite polynomials. 142
Madow, W. G.
Distribution of quadratic forms in non-central normal random variables. 248
Limiting distributions of quadratic and bilinear forms. 341
Maeda, F.
Ideals in a Boolean algebra with transfinite chain condition. 197
Maeda, J.
Certain system of straight lines in skew position. 262
Magnus, W.
Theorem of Marshall Hall. 44
Allgemeine Gruppentheorie. 103
Mahler, K. (Cf. Billing, G.)
Proof of Hurwitz's theorem. 39
Übertragungsprinzip für lineare Ungleichungen. 202
Note on the sequence $\sqrt{n}$ (mod 1). 202
Übertragungsprinzip für konvexe Körper. 202
Geometrical representation of p-adic numbers. 295
Maier, K.
Desarguessche Konfiguration. 81
Maitland, B. J.
Analytic functions bounded at a double sequence of points. 49

Maitland, B. J. (Continued)
Functions regular and bounded in the unit circle and small at a set of points near the circumference of the circle. 112
Maker, P. T.
Ergodic theorem for a sequence of functions. 339
Mall, J.
Satz über die Konvergenz von Kettenbrüchen. 7
Mambriani, A.
Algoritmi integro-differenziali lineari. 144
Manarini, M.
Forze ponderomotrici nei dielettrici eterogenei in relazione alle tensioni elastiche nei corpi deformati. 92
Mancill, J. D.
Carathéodory condition for unilateral variations. 243
Mandelbrojt, S. (Cf. Cartan, H.)
Fonctions convexes. 137
Fonctions indéfiniment dérivables. 297
Mandzuk, A. I.
Nomogrammes à systèmes de points non-côtés. 254
Mangeron, D.
Applicazione del metodo di Picone, della trasformata di Laplace ad intervallo d'integrazione finito, alla teoria delle equazioni a derivate parziali d'ordine qualunque. 181
Equazioni lineari a derivate parziali di tipo "composito" secondo Hadamard. 237
Manning, W. A.
Transitive groups that contain certain transitive subgroups. 44
March, A.
Ganzzahligkeit in Raum und Zeit. III. 352
March, A. and Foradori, E.
Ganzzahligkeit in Raum und Zeit. II. 184
Marchaud, A.
Surfaces du troisième ordre de la géométrie finie. 169
Marchetti, L.
Problema della trisezione dell'angolo. 79
Marcinkiewicz, J. (Cf. Bergmann, S.)
Sommabilité forte de séries de Fourier. 11
Théorèmes de la théorie des probabilités. 21
Nouvelle condition pour la convergence presque partout des séries de Fourier. 329
Convergence absolue des séries de Fourier. 329
Marcinkiewicz, J. and Salem, R.
Sommes riemanniennes. 207
Marcinkiewicz, J. and Zygmund, A.
Dérivée seconde généralisée. 8
Markoff, A.
Definition of a complex. 219
Marshall, J. B.
Extension of Fermat's theorem to matrices of order n. 199
Martin, W. T. (Cf. Bergmann, S.)
Analytic functions and multiple Fourier integrals. 330
Maruyama, G.
Determination of the jump of a function by its Fourier series. 138
Masuyama, M.
Correlation between tensor quantities. 151
Mathisson, M.
Problème de M. Hadamard relatif à la diffusion des ondes. 120
Matossi, F.
Analogie der Schrodingerschen Differentialgleichung mit einer Wellengleichung. 191
Mattioli, E.
Matrici ortogonali periodiche razionali e in particolare su quelle di 3° ordine e di 3° grado. 324
Mauchly, J. W.
Significance test for sphericity of a normal n-variate distribution. 348
Maxia, A. (Cf. Beretta, L.)
Varietà anolonome associate ad una trasformazione dualistica. 272
Maximoff, I.
Ensembles mesurables B dans l'espace transfini. 109
Continuum of power $2^{\aleph_1}$. 206
Système de Souslin d'ensembles dans l'espace transfini. 301
Séparabilité d'ensembles. 301
Maxwell, L. R.
Electrical method for compounding sine functions. 253
Mayer, O.
Surfaces réglées. III. 270
Mehmke, R.
Geometrie der Polygone, Polyeder und Polytope in linearen Räumen beliebiger Stufe bei euklidischer und nichteuklidischer Massbestimmung. 25
Metrische Geometrie quadratischer Gebilde. 157
Meidell, B.
Theorie und Praxis der Berechnung des effektiven Zinsfusses bei Anleihen. 252
Meijer, C. S.
Produkte von Legendreschen Funktionen. 116
Besselsche, Lommelsche und Whittakersche Funktionen. I, II. 118
Besselsche, Struvesche und Lommelsche Funktionen. I. 233
Meissner, W.
Tafel der ln Γ-Funktion mit komplexem Argumentbereich. 31
Zinsfussproblem bei der Leibrente. 251
Menchoff, D.
Multiplicateurs de convergence pour les séries de polynômes orthogonaux. 230
Menger, K.
Cauchy's integral theorem in the real plane. 72
A theory of length and its applications to the calculus of variations. 244
Menon, P. Kesava. See Kesava Menon.
Merli, L. See Beretta, L.
Merz, K.
Einseitige Ergänzungsvielflache aus dem Tetraedertyp. 156
Kreuzhauben aus dem Oktaedertyp. 156
Metcalf, W. V.
Absolute space and time. 322
Mewborn, A. B. See Michal, A. D.
Meyer-König, W.
Limitierungsumkehrsätze mit Lückenbedingungen. 11, 51
Sätze aus der Reihenlehre. 218
Frage der Umkehrung des C- und A-Verfahrens bei Doppelfolgen. 219
Michal, A. D.
General differential geometries and related topics. 29
Michal, A. D. and Mewborn, A. B.
Géométrie différentielle projective générale des géodésiques généralisées. 87
Abstract flat projective geometry. 176
Michel, H.
Introduction à l'étude d'une collection d'instruments anciens de mathématiques. 33
Middlemiss, R. R.
Differential and integral calculus. 299
Mihoc, G. See Onicescu, O.
Milatz, J. M. W. See Ornstein, L. S.
Milgram, A. N.
Partially ordered sets and topology. 220
Millar, A. V. and Shiels, K. G.
Descriptive geometry. 25
Miller, E. W. (Cf. Dushnik, B.)
Theorems on continua. 221
Miller, F. H.
Calculus. 7
Heaviside's expansion theorem. 234

Miller, G. A.
Groups which contain ten or eleven proper subgroups. 6
Collected works, v. 2. 43
Prime power groups determined by the number of their subgroups. 43
Groups having a small number of sets of conjugate subgroups. 103
Groups which contain less than ten proper subgroups. 103
Independent generators of the subgroups of an Abelian group. 103
Groups having a small number of subgroups. 103
Groups containing a prime number of non-invariant subgroups. 103
Groups which contain less than 14 proper subgroups. 161
Groups which contain exactly fourteen proper subgroups. 257
Abelian groups which contain no more than 25 proper subgroups. 257
Milloux, H.
Théorie des défauts. 213
Milne-Thomson, L. M.
Hydrodynamical images. 284
Mimura, Y. and Hosokawa, T.
Space, time and laws of nature. 34
Minakshi Sundaram, S.
Non-linear partial differential equations of the parabolic type. 16
Non-linear partial differential equations of the hyperbolic type. 16
Generalised Tauberian theorems. 51
Roots of a continuous non-differentiable function. 303
Mindlin, J. A.
Propagation of waves in two dimensions. 316
Solution of Cauchy-Dirichlet's external problem for a wave equation in the case of a circle. 316
Propagation of elastic waves in two dimensions. 316
Minoda, T.
Theorems on convex polygons and ovals. I, II. 158
On "Katuyô Sampô, Book III" of Takakazu Seki. 289
de Mira Fernandes, A.
Derivate tensoriali simmetriche. 177
Miranda, C.
Problema di Minkowski. 86
von Mises, R.
Inequality for the moments of a discontinuous distribution. 22
Probability, statistics and truth. 61
Misra, R. D.
Stability of crystal lattices. II. 277
Mitrinovitch, D. S.
Problème de Darboux. 75
Mitropolsky, A.
Multiple non-linear correlation equations. 345
Mittelstaedt.
Affine Viereckskinvarianten, dreieckssymmetrisch (zyklisch) betrachtet. 165
Miyatake, O.
Riemann's ξ-function. 214
Miyazaki, S.
Doppelberührungslehre der Kurven 2. Ordnung. I. 166
Moessner, A.
Einige numerische Identitäten. 133
Einige Diophantische Probleme und zahlentheoretische Untersuchungen. 291
Zahlentheoretische Untersuchungen und Resultate. 291
Moghe, D. N.
Stability of motion in Milne's kinematical system. 20
Isotropic manifolds in the theory of relativity. 125
Non-static solutions of Einstein's gravitational equations, and fluid spheres with the pressure and density as slowly varying functions of time. 125
Stability of equilibrium of an isolated fluid sphere. 184
Mohan, B.
Self-reciprocal functions involving Laguerre polynomials. 140
Self-reciprocal functions. I–IV. 140, 229, 331
Mohanty, R.
Summation of the integral conjugate to the Fourier integral of the finite type and of the conjugate series. 227
Mohr, E.
Laminare Strömung längs der Platte und damit verwandte Flüssigkeitsbewegungen. 20
Moldawer, A. I.
Nomogrammes hexagonaux de Lallemann. 254
Courbes unicursales et leur application à la nomographie. 256
Molenaar, P. G.
Differentialinvarianten zweiter Ordnung der binären kubischen Differentialform. 55
Molière, G.
Berechnung verallgemeinerter Gitterpotentiale. 24
Monna, A. F.
Généralisation du problème de Dirichlet pour ensembles bornés mesurables (*B*) quelconques. 122
Capacité des ensembles. 238
Notions de "point stable" et "point régulier" dans le problème de Dirichlet. 238
Monteiro, A.
Additivité dans un anneau. 336
Montel, P.
Suites de fonctions non bornées dans leur ensemble. 49
Valeurs des fonctions holomorphes. 212
Moon, P.
Table of Fresnel reflection. 125
Moore, M. G.
Expansions in series of exponential functions. 141
Moore, R. L.
Accessibility. 107
Open subsets of a plane continuum. 107
Morant, J.
Extension d'une remarque de M. Goursat sur le développement en série entière de l'intégrale d'une équation différentielle. 75
Morgan, W. A.
Test for the significance of the difference between the two variances in a sample from a normal bivariate population. 64
Mori, S.
Produktzerlegung der Hauptideale. II, III. 101, 327
Zerlegung der Hauptideale aus Polynomringen in minimale Primideale. III. 198
Morin, U.
Classificazione proiettiva delle varietà a superficiesezioni razionali. 83
Moriya, M.
Divisorenklassen nullten Grades in einem abstrakten elliptischen Funktionenkörper. 38
Bewertungstheoretischer Aufbau der multiplikativen Idealtheorie. 327
Morosoff, V. V.
Groupes primitifs. 258
Morrey, C. B., Jr.
Functions of several variables and absolute continuity. II. 209
Morris, R. M.
Two-dimensional hydrodynamical theory of moving aerofoils. III. 90
Internal problems of two dimensional potential theory. 188
General solutions of St. Venant's flexure and torsion problem. I. 189
Morrow, J.
Bending of thick plates under certain specified conditions of support. 91
Morse, A. P. See Adams, C. R.
Morse, A. P. and Randolph, J. F.
Gillespie measure. 304

Morse, M.
Sur le calcul des variations. 77
Rank and span in functional topology. 320
Morse, M. and Hedlund, G. A.
Symbolic dynamics. II. 123
Moskovitz, D. and Dines, L. L.
Convexity in a linear space with an inner product. 58
Supporting-plane property of a convex body. 335
Mostowski, A.
Begriff der inhaltlichen Widerspruchsfreiheit. 34
Moyal, J. See Dedebant, G.
Mulholland, H. P.
Total variation of a function of two variables. 303
Müller, J.
Untersuchung über elektromagnetische Hohlräume. 275
Müller, W.
Problem der Längsbewegung eines Flugzeugs. 20
Musheliśvili, N. I.
Solution of Dirichlet's problem for the plane. 314
Fundamental boundary problems in potential theory. 314
Mutô, Y.
Properties of hypersurfaces in a conformally connected manifold. 175
Equations of circles in a space with a conformal connection. 175
Family of curves on a hyper-surface in the Riemannian space. 272
Properties of umbilical points of hypersurfaces. 272
Muzen, P.
Application du théorème de Mollerup. 333
Myers, D. M.
Integraph for the solution of differential equations of the second order. 252

Nagel, E.
Formation of modern conceptions of formal logic in the development of geometry. 34
Nagell, T.
Bestimmung des Grades gewisser relativ-algebraischer Zahlen. 68
Nagumo, M.
Verhalten der Integrale von $\lambda y''+f(x, y, y', \lambda)=0$ für $\lambda \to 0$. 177
Nagy, G. Szökefalvi. See Szökefalvi Nagy.
Nakano, H.
Abelsche Ringe von Projektionsoperatoren. 18
Funktionen mehrerer hypermaximaler normaler Operatoren. 147
Hypermaximalität normaler Operatoren. 338
Nakayama, M.
Decomposition of a rational number into "Stammbrüche." 134
Nakayama, T.
Frobeniusean algebras. I. 3
Sum and intersection of two normal ideals in an algebra. 327
Namase-Marie.
Détermination de la date de Pâques. 33
Nannei, E.
Costruzione dell'ettagono regolare e di altri poligoni regolari di n lati ($n>7$). 79
Narayan, L.
Obituary notice: Ganesh Prasad. 290
Nardini, R.
Risoluzione di due equazioni funzionali del tipo di Volterra. 181
Nehari, Z.
Déformation de la frontière par les fonctions univalentes convexes. 112
Nehring, O. and Zacharias, M.
Sätze über ebene Vielecke. 156
Neumann, B. H.
Some affine invariants of closed convex regions. 158
v. Neumann, J.
Rings of operators. III. 146
v. Neumann, J. and Halperin, I.
Transitivity of perspective mappings. 108
Neumer, W.
Dreigliedrige Berührungstransformationsgruppen der Ebene, welche keine Invariante erster Ordnung besitzen. I. 163
Nevanlinna, R.
Zum alternierenden Verfahren. 121
Newman, D.
Distribution of range in samples from a normal population, expressed in terms of an independent estimate of standard deviation. 153
Niemytzki, V.
Systèmes de courbes remplissant un espace métrique. 242
Niessen, K. F. and de Vries, G.
Empfangsimpedanz einer Empfangsantenne. I, II. 24
Niven, I.
Transcendence of π. 71
Certain partition function. 201
Nöbeling, G. See Haupt, O.
Nomura, Y.
Forces on two parallel co-axial circular discs placed in uniform flow. 284
Northcott, D. G.
Inequalities between periodic functions and their derivatives. 71
Norton, H. W.
7 x 7 squares. 199
Novák, J.
Espaces (L) et produits cartésiens (L). 221
Novikoff, P. C.
Projections of some B-sets. 302
Novoa, L. Gutiérrez. See Gutiérrez Novoa.
Nyberg, M.
Elementary proof that the regular n-gon has maximum area and circumscribed circle among all n-gons inscribed in a circle, and minimum area and circumscribed circle among all n-gons circumscribed to a circle. 264

Obláth, R.
Über die Zahl x^3-1. 291
Sur les nombres x^3-1. 291
Obrechkoff, N.
Zéros de quelques classes de fonctions. 49
Algebraische Gleichungen, die nur Wurzeln mit negativen Realteilen besitzen. 193
Sommation par la transformation d'Euler les séries de Dirichlet, les séries de facultés et la série de Newton. 230
O'Brien, K. E.
Problems in interpolation by characteristic functions of linear differential systems of the fourth order. 334
O'Connor, R. E.
Quadratic and linear congruence. 39
Offner, F., Weinberg, A. and Young, G.
Nerve conduction theory: some mathematical consequences of Bernstein's model. 351
Offord, A. C.
Approximation to functions by trigonometric polynomials. 328
Ogasawara, T.
Relation between intuitionistic logic and lattice. 132
Ôkubo, H.
Stress distribution in a semi-infinite domain having a plane boundary and compressed by a rigid body. 287
Oldenburger, R.
Exponent trajectories in symbolic dynamics. 59
Factorability of general symmetric matrices. 99
Higher dimensional determinants. 194
Complete reducibility of forms. 194

Oldenburger, R. (Continued)
Infinite powers of matrices and characteristic roots. 324
Polynomials in several variables. 324
Olshevsky, L.
Two properties of sufficient statistics. 249
Olsson, R. Gran. See Gran Olsson.
Onicescu, O.
Définition de la probabilité et problème de la roulette. 245
Probabilité d'un événement isolé. 245
Onicescu, O. and Mihoc, G.
Sommes de variables enchaînées dans le cas d'un ensemble numérable de valeurs. 246
Application des équations fonctionnelles de Chapman et Smoluchowsky dans la théorie des chaînes de Markoff. 247
Propriétés asymptotiques des chaînes de Markoff étudiées à l'aide de la fonction caractéristique. 342
Opatowski, I.
Combinatoric interpretation of a formula for the nth derivative of a function of a function. 72
Force lines in Newtonian bidimensional fields. Some applications and generalizations. 300
Ore, O. (Cf. Eaton, J. E.)
Groups which are the direct product of their Sylow groups. 104
Factorization of polynomials. 194
Orloff, C.
Formation de l'intégrale générale d'une équation aux dérivées partielles du second ordre, au moyen d'une intégrale complète. 76
Orlov, A. A.
Solutions Lagrangiennes du problème des trois corps avec les masses variables. 282
Ornstein, L. S. and Milatz, J. M. W.
Accidental deviations in the conduction of heat. 315
Orts, J.
Two notes on numerical series. 216
Ostrowski, A.
Continuité relative des racines d'équations algébriques. 97
Recherches sur la méthode de Graeffe et les zéros des polynomes et des séries de Laurent. 323
Otchan, G.
Équivalence des familles d'ensembles mesurables B. 241
Ottaviani, G.
Probabilità che una prova su due variabili casuali X e Y verifichi la disuguaglianza $X < Y$ e sul corrispondente scarto quadratico medio. 340
Ottestad, P.
Use of the factorial moments in the study of discontinuous frequency distributions. 22
Oudin, J. M. See Namase-Marie.
Oxtoby, J. C. and Ulam, S. M.
Existence of a measure invariant under a transformation. 18

Paetz, G.
Differentialgeometrie der Kugelkomplexe. I. 271
Pailloux, H.
Enveloppe des surfaces inextensibles. 28
Mouvements fluides entrainant une famille de surfaces inextensibles. 286
Palamà, G.
Risolvente razionale della $\sum_{i=1}^{n}\sqrt{a_i}=0$, sotto forma di determinante. 97
Equazioni differenziali lineari soddisfatte dal prodotto di integrali particolari di due equazioni differenziali lineari omogenee assegnate e su alcune formule integrali dei polinomi di Laguerre e di Hermite. 144
Relazioni integrali relative ai polinomi di Laguerre e d'Hermite. 231
Pall, G.
An almost universal form. 292
Parhomenko, A.
Eineindeutige stetige Abbildungen. 221
Parry, W. T.
Modalities in the Survey system of strict implication. 131
Pasternack, S.
Generalization of the polynomial $F_n(x)$. 116
Pastori, M.
Propagazione delle azioni gravitazionali ed elettromagnetiche. 182
Propagazione di un generico movimento in una membrana inestendibile. 188
Principali invarianti del campo elettromagnetico in teoria della relatività. 191
Principio variazionale di Volterra e gli invarianti del campo elettromagnetico. 274
Patterson, B. C.
The triangle: its deltoids and foliates. 156
Patterson, G. W. See Keulegan, G. H.
Pauc, C. (Cf. Haupt, O.)
La surface représentative de la distance d'un point à un ensemble ponctuel plan. 109
Fonctionnelle généralisant la longueur de courbe dans les espaces à écart positif uniformément continu. 240
Relation entre un point et une de ses projections sur un ensemble. 263
Pauli, W. See Fierz, M.
Pauli, W. and Belinfante, F. J.
Statistical behaviour of known and unknown elementary particles. 279
Paxson, E. W.
Linear topological groups. 58
Pearson, E. S.
Inverse and direct methods of estimation in R. D. Gordon's problem. 23
Pearson, K.
Bibliography of statistical and other writings of K. Pearson. 345
Pedersen, P.
Klasse infinitesimaler, periodischer Bahnen um die Dreieckslibrationspunkte im problème restreint. 60
Fourier expansions for periodic orbits around the triangular libration points. 60
Pedrazzini, P.
Trattrice ordinaria e curve di inseguimento. 73
Peebles, G.
Generalizations of the theory of orthogonal polynomials. 230
Peierls, R.
Critical conditions in neutron multiplication. 96
Pelseneer, J.
Lettres inédites de Newton. 33
Pendse, C. G.
Gravity and the rotation of the earth. 281
Pentkowsky, M. W.
Transformation projective des nomogrammes. 254
Nomogrammes plans équivalents aux nomogrammes à trois dimensions de Mehmke. 254
Peretti, G.
Vortici nei veli liquidi viscosi. 90
Perez Cacho, L.
Sum of Euler functions of successive orders. 290
Perlin, I. E.
Indefinitely differentiable functions with prescribed least upper bounds. 298
Perlis, S.
Maximal orders in rational cyclic algebras of composite degree. 2
Péter, R.
Recursive number theory. 132
Petersson, H.
Konstruktion der sämtlichen Lösungen einer Riemannschen Funktionalgleichung durch Dirichlet-Reihen mit Eulerscher Produktentwicklung. II. 294

Petiau, G.
Équation d'ondes d'un corpuscule à deux états de masse susceptible de représenter le proton-neutron. 24
Représentation de l'équation d'ondes et l'évolution des grandeurs électromagnétiques dans la théorie du photon. 191
Théorie générale des corpuscules élémentaires et la théorie du photon. 191
Petr, K.
Rationale kanonische Form einer linearen Substitution. 195
Petrowsky, I. G.
Analyticité des solutions des systèmes d'équations différentielles. 236
Pettis, B. J. See Dunford, N.
Pfluger, A.
Wertverteilung und Verhalten von Betrag und Argument einer Klasse analytischer Funktionen. II. 113
Phillips, R. S.
Decomposition of additive set functions. 240
Piaggio, H. T. H.
Geometry of special integrals of Lagrange's equation. 119
Piccard, S.
Propositions concernant les bases du groupe symétrique et du groupe alternant. 161
Picone, M.
Nuovi metodi d'indagine per la teoria delle equazioni lineari a derivate parziali. 180
Nuovi metodi per il calcolo delle soluzioni delle equazioni a derivate parziali della fisica matematica. 236
Pierrottet, E.
Fondamenti dei moderni metodi di calcolo per i sistemi elastici. 287
Pietsch, H.
Geodätische Approximation einer topologischen Triangulation. 46
Pillai, S. S.
Normal numbers. 4
Smallest prime of the form $km+l$. 135
Number of representations of a number as the sum of the square of a prime and a squarefree integer. 135
Numbers which are not multiples of any other in the set. 135
Note on Sambasiva Rao's paper (particular representation of integers). 135
On m consecutive integers. I, II. 199, 291
Generalisation of a theorem of Mangoldt. 293
Pinl, M.
W-Projektionen totalisotroper Flächen. II. 271
Pipes, L. A.
Matrix theory of oscillatory networks. 93
Method of symmetrical components applied to harmonic analysis. 127
Pisot, C. See van der Corput, J. G.
Pitcher, E.
Identification of two subsets. 106
Critical points of a map to a circle. 107
Pitman, E. J. G.
Normal correlation. 63
Tests of hypotheses concerning location and scale parameters. 63
Pitt, H. R.
Wiener's general harmonic analysis. 139
Pizzetti, E.
Sulle medie esponenziali e baso-esponenziali. 298
Plancherel, M.
Remarques sur la théorie des transformations linéaires bornées des fonctions de plusieurs variables dans les espaces fonctionnels L^a. 239
Planck, M.
Versuch einer Synthese zwischen Wellenmechanik und Korpuskularmechanik. 351
Pleijel, A.
Propriétés asymptotiques des fonctions fondamentales du problème des vibrations dans un corps élastique. 56
Propriétés asymptotiques des fonctions et valeurs propres des plaques vibrantes. 121
Plessner, A.
Halbunitäre Operatoren. 338
Podolsky, B. and Branson, H.
Quantization of mass. 278
Poivert, J.
Résolution algébrique d'une importante classe d'équations. 193
Polak, A. I.
Open mappings of locally-connected continua. 318
Poli, L.
Sinus du $n^{\text{ième}}$ ordre et calcul symbolique. 305
Polidori, C.
Nuova teoria della capitalizzazione e i problemi d'interesse semplice. 155
Pollard, H.
Inversion of the Laplace integral. 331
Pompilj, G.
Rappresentazione algebrica dei piani tripli. 83
Rappresentazione algebrica dei piani multipli diedrici. 267
Poncin, H.
Conditions de stabilité d'une discontinuité dans un milieu continu. 92
Équations du mouvement d'un milieu continu dans le cas de discontinuités stationnaires relatives à la densité. 284
Pontrjagin, L.
Topological groups. 44
Homologies in compact Lie groups. 259
Poor, V. C.
Circulation functions. 115
Popa, I.
Géométrie projective différentielle du point conique des surfaces. 87
Popoff, K.
Extension de la notion de dérivée. I–IV. 109, 115, 207
Generalizzazione della nozione di derivata di una funzione di variabile reale o complessa. 207
Popoviciu, T.
Deux remarques sur les fonctions convexes. 71
Approximation des fonctions convexes d'ordre supérieur. 71
Prolongement des fonctions monotones et des fonctions convexes définies sur un nombre fini de points. 71
Fonctions convexes d'ordre supérieur. VI, VII, VIII. 204
Poritsky, H.
Radiation from a point charge revolving in a circular orbit. 274
Pospíšil, B.
Bicompact spaces. 241
de Possel, R.
Représentation conforme d'un domaine à connexion infinie sur un domaine à fentes parallèles. 111
Possio, C.
Moto non stazionario di una superficie portante. 187
Potoček, J.
Diffusion et notion de réversibilité de M. Kolmogoroff. 247
Potron, J.
Matrices non négatives, et solutions positives de certains systèmes linéaires. 97
Prager, W.
Descriptive geometry. II. 155
Preinreich, G. A. D.
Theory of industrial replacement. 154
Economic life of industrial equipment. 155
Price, G. B.
Class of monotone functions. 48
Definitions and properties of monotone functions. 206
Theory of integration. 239
Completeness of a certain metric space with an application to Blaschke's selection theorem. 335

Privaloff, I. I.
Integrals of Cauchy type. 305
Proia, L.
Gruppi finiti di omografie piane. 257
Prüfer, H.
Projektive Geometrie. 80
Przyborowski, J. and Wilenski, H.
Homogeneity of results in testing samples from Poisson series with an application to testing clover seed. 346
Puckett, W. T., Jr.
Local connectedness under the inverse of certain continuous transformations. 31
0-regular surface transformations. 222
Regular transformations. 223
Puga, C. de Losada y. See Losada.
Puig Adam, P.
Simplified demonstration of the De Moivre-Stirling formula and a geometrical limit for the error. 300
Purcell, E. J.
Multiple null-correspondence and a space Cremona involution of order $2n-1$. 268
Pylarinos, O.
Guichardsche Strahlensysteme. 270

Rademacher, H.
Fourier expansions of modular forms and problems of partition. 136
Rádl, F.
Teilbarkeitsbedingungen bei den gewohnlichen Differentialpolynomen. 15
Teilbarkeit des gewöhnlichen Differentialpolynoms dritter Ordnung durch ein ähnliches Polynom zweiter Ordnung. 144
Radó, T. and Reichelderfer, P.
Stretching process for surfaces. 8
Cyclic transitivity. 318
Radó, T. and Youngs, J. W. T.
Upper semi-continuous collections. 241
Radon, J.
Ein Satz der Matrizenrechnung unds eine Bedeutung für die Analysis. 98
Rados, G.
Cyklische unitäre Substitutionen. 98
Semidefinite Hermite-Formen. 98
Unabhängigkeit der Bedingungsgleichungen zwischen den Koeffizienten unitärer Substitutionen. 194
Einige von Hermiteschen abgeleitete Formen. 194
Elementare Herleitung der Kennzeichen definiter und semidefiniter Hermitescher Formen. 194
Kroneckersche Composition von Hermiteschen Formen. 194
Raikov, D. A.
Proof of a theorem of L. G. Schnirelmann concerning the density of the arithmetic sum of sets. 296
Addition of point-sets in the sense of Schnirelmann. 296
Local approximation of differentiable functions. 333
Rainville, E. D.
Adjoints of linear differential operators. 144
Linear differential invariance under an operator related to the Laplace transformation. 234
Rajagopal, C. T.
Theorems connected with Maclaurin's integral test. 216
Ramo, S. See Blewett, J. P.
Randels, W. C.
Absolute summability of Fourier series. II. 139
Randolph, J. F. See Morse, A. P.
Rangachariar, V.
Three conicoids of a tangential system which pass through a point. 170
Rangaswami, K.
Theory of the general contact circles of a triangle. 155

Rankin, R. A.
Contributions to the theory of Ramanujan's function $\tau(n)$ and similar arithmetical functions. I, II, III. 69, 203
Difference between consecutive prime numbers. II. 292
Rao. See Madhava Rao; Sambasiva Rao.
Rashevski, P.
General theorem concerning the contact of curves (a generalization of the mean value theorem of the differential calculus). 299
Rasmusen, R. B.
Canonical lines and the extremals of two invariant integrals. 87
Raudenbush, H. W., Jr. See Ritt, J. F.
Ray, M.
Turbulent liquid motion outside a circular boundary. 186
Raynor, G. E.
Serret's integral formula. 72
Rédei, L.
Diophantische Gleichung $mx^3+ny^3=z^4$. 134
Reichelderfer, P. See Radó, T.
Reid, W. T.
Isoperimetric problems of Bolza in non-parametric form. 19
Jacobi condition for the double integral problem of the calculus of variations. 78
Theorem on continuous functions in abstract spaces. 240
Reidemeister, K.
Durchschnitt und Schnitt von Homotopieketten. 105
Arithmetik der Griechen. 129
Transitivität der Winkelkongruenz. 261
Reijnierse, J. M.
Limite d'une suite de polynômes. 53
Reingold, H. See Barnett, I. A.
Reissner, E. See Gran Olsson, R.
Rella, T.
Positiv-homogene Funktionen 1. Grades einer Matrix. 98
Reuter, G.
Ein Interpolationsproblem. 49
Rey, A.
La maturité de la pensée scientifique en Grèce. 289
de Rham, G.
Procède de formation d'invariants intégraux. 119
Rhodes, E. C.
Population mathematics. I. 250
Riabouchinsky, D.
Nouvelles remarques sur l'analogie supersonique du champ électromagnétique. 94
Rice, S. O.
Electric field produced by a point-charge located outside a dielectric wedge. 179
Some properties of ${}_3F_2(-n, n+1, \zeta; 1, \rho; v)$. 234
Rich, C. D.
General theory of mortality. 349
Richmond, H. W.
Extension of de Longchamps' chain of theorems. 261
Richter, H.
Konvergenz der Erneuerungsfunktion. 349
Richter, W.
Anwendung des erweiterten Satzes von Menelaos in der Nomographie. 32
Rickart, C. E.
Pascal configuration in a finite projective plane. 165
Ridder, J.
Totalisation par rapport à une fonction à variation bornée. 110
Nouvelles propriétés de la totalisation par rapport à une fonction à variation bornée généralisée. 110
Rider, P. R.
Introduction to modern statistical methods. 63
Riesz, F.
Théorème de Jordan. 106
Notions fondamentales dans la théorie générale des opérations linéaires. 147

Rietz, H. L.
Distribution of the "student" ratio for small samples from certain non-normal populations. 23
Rinehart, R. F.
Interpretation of the index of inertia of the discriminant matrices of a linear associative algebra. 99
Extrema of functions which satisfy certain symmetry conditions. 300
Rinner, K.
Beitrag zur Orientierungsaufgabe. 128
Elementare Ableitung der Fehlergleichungen für den Normalfall der gegenseitigen Orientierung. 128
Ríos, S.
Domains of convergence of the algorithms of convergence (E_n) which generalize that of Euler. 218
Ritt, J. F. and Kolchin, E. R.
Certain ideals of differential polynomials. 101
Ritt, J. F. and Raudenbush, H. W., Jr.
Ideal theory and algebraic difference equations. 101
Riz, P.
Deformations of naturally twisted bars. III. 287
Deformations and stresses of naturally twisted bars. 287
Roberts, J. H.
Two-to-one transformations. 319
Robertson, H. P.
Invariant theory of isotropic turbulence. 286
Robertson, M. S.
Variation of the sign of V for an analytic function $U+iV$. 9
Typically-real functions with $a_n=0$ for $n\equiv 0 \pmod 4$. 214
Robinson, C. V. See Blumenthal, L. M.
Robinson, R. M.
Numerical bounds in Schottky's theorem. 112
Robinson, R. T.
Theorems on perspectivity. 166
Rocard, Y.
Méthodes pratiques de résolution de l'équation du quatrième degré. 252
Rock, D. H.
Finite strain analysis in elastic theory. 92
Rodabaugh, L. D.
Partial differential equation $\partial z/\partial x + f(x, y)\partial z/\partial y = 0$. 313
Rodgers, E.
Probable error for Poisson distributions. 246
Roger, F.
Extension à l'ordre n des théorèmes de M. Denjoy sur les nombres dérivés du premier ordre. 47
Romanini, C.
Realità delle radici di un'equazione di quarto grado. 97
Rome, A.
Problème de l'équation du temps chez Ptolémée. 33
Rosca, R.
Transformations asymptotiques des courbes de l'espace elliptique. Courbes de Bertrand. 84
Rosen, E.
Three Copernican treatises. 129
Rosen, N.
General relativity and flat space. I, II. 183
Ether-drift experiments. 183
Rosenbaum, B.
On the irreducibility of certain classes of polynomials. 36
Rosenblatt, A. (Cf. García, G.)
Points singuliers des équations différentielles. 16
Fondements mathématiques de la méthode de résistivité dans la prospection électrique du sous-sol. 182
Points singuliers des équations différentielles. 236
Formule de Stokes dans la théorie de gravité. 281
Ross, A. E.
Theorem on simultaneous representation of primes and its corollaries. 68
Rosseland, S.
Mechanische Integration von Differentialgleichungen. 127
Rosser, B.
First case of Fermat's last theorem. 5
New lower bound for the exponent in the first case of Fermat's last theorem. 292
Rosser, B. and Walker, R. J.
Algebraic theory of diabolic magic squares. 133
Rossinski, S.
Déformation des congruences rectilignes avec conservation de certains systèmes spéciaux de surfaces réglées. 173
Problème général de la déformation des congruences avec conservation de certains systèmes spéciaux de surfaces réglées. 173
Rothe, E.
Topological proofs of uniqueness theorems in the theory of differential and integral equations. 18
Asymptotic solution of a boundary value problem. 54
Theory of topological order in some linear topological spaces. 108
Roubaud-Valette, J.
Mécanique ondulatoire de certains espaces tordus. 191
Roy, M.
Écoulement relatif permanent d'un fluide parfait et l'hypothèse des tranches. 20
Ruark, A.
Time distribution of so-called random events. 150
Ruban, A. N.
Problème du cylindre flottant. 300
Ruchti, W. See Hadwiger, H.
Ruelle, U.
Integrale di Fourier per funzioni di più variabili. 227
Ruhadze, A. K.
Problem of flexure of compound elastic beams. 288
Rusting, F. H.
Property concerning the computation of premiums with abnormal risks. 155
Rutherford, D. E.
Vector methods. 46
Rybakoff, L.
Une classe de semi-groupes commutatifs. 164

Sagastume Berra, A. E.
Paramorphisms of a group. 259
Sakai, T.
Gibbs' canonical ensemble and the distribution law in statistical mechanics. 276
Sakata, R. See Komatu, A.
Sakellariou, N.
Variationsrechnung. 78
Sakurai, T.
New method of evaluating the flow in boundary layer which varies with time. 185
Two-dimensional boundary layer equation for motion of viscous fluid near moving obstacle. 185
Salem, R. (Cf. Marcinkiewicz, J.)
Transformations des séries de Fourier. 73
Les propriétés descriptives des ensembles de points de divergence des séries trigonométriques. 138
Salgaller, V. and Kostelianetz, P.
Problème du cylindre flottant. 300
Salini, U.
Trasformazioni delle reti di Voss. 171
Osservazioni sulle normali ad una superficie di uno spazio a quattro dimensioni. 174
Saltykow, N.
Oeuvre de Jacobi dans le domaine des équations aux dérivées partielles du premier ordre. 33
Invariants des équations linéaires aux dérivées partielles du second ordre. 236
Correction de la solution donnée par Descartes au problème de Pappus. 290
Forme canonique des groupes fonctionnels. 313

Saltykow, N. (Continued)
Étude sur les intégrales de S. Lie des équations aux dérivées partielles du premier ordre à une fonction inconnue. 313
Sambasiva Rao, K.
A particular representation of integers as sums of kth powers. 135
Sanguineti, J.
Study of some special curves. 165
Sansone, G.
Valutazione dell'errore nel calcolo effettivo del periodo del moto perturbato in un caso tipico di prima approssimazione. 234
Santaló, L. A.
Integral geometry of unbounded figures. 265
Sasaki, S.
New proof of the theorem of J. A. Schouten on an umbilic surface in a Riemannian space. 174
Surfaces in a curved conformal space. I, II. 175, 273
Sastry, B. S.
A type of generalised Laguerre polynomial. 143
Sauer, R.
Fastreguläre Sechseckgewebe und fastreguläre Abbildungen. 171
Savin, S. A.
Flexure of a rectangular covering slab elastically fixed by its four sides. 21
Scardina, M.
Proposizioni sulle disuguaglianze. 71
Schaeffer, A. C. (Cf. Duffin, R. J.)
Fourier-Stieltjes coefficients of a function of bounded variation. 12
Schatz, H.
Kreisscharen mit konstanten Invarianten in der Geometrie von Laguerre. 157
Schelkunoff, S. A.
General radiation formula. 93
von Schelling, H.
Kennzeichen für eine rein zufällige Folge der Werte in einer zeitlich geordneten Beobachtungsreihe. 249
Scherk, P.
Bemerkungen zu einer Note von Besicovitch. 5
Schiff, L. I.
Question in general relativity. 124
Schiffer, M.
Variation de la fonction de Green de domaines plans. 210
Schilling, B.
Methoden zur numerischen Auswertung unendlicher Reihen mit reellen konstanten Gliedern. 217
Schilling, O. F. G. (Cf. MacLane, S.)
Units in p-adic algebras. 38
Remarks on a special class of algebras. 328
Regular normal extensions over complete fields. 328
Schmidt, E.
Fundamentalsatz der Theorie der Systeme linearer partieller Differentialgleichungen. I. 76
Schmidt, O. J.
Frobenius-Gruppen. 257
Schneider, V. See Bebutoff, M.
Schnirelmann, L. G.
Addition of sequences and sets. 202
Prime numbers. 292
Schoblik, F.
Funktionalbeziehung Hermitescher Polynome. 15
Schoeneberg, B.
ζ-Funktion einfacher hyperkomplexer Systeme. 203
Scholte, J. G.
Vibrations of an elastic sphere with central core. 188
Scholz, A.
Abelsche Durchkreuzung. 104
Schönberg, M.
Équations relativistes de mouvement du premier ordre en Mécanique quantique. 191
Schouten, J. A. and van Dantzig, D.
Ordinary quantities and W-quantities. 272
Schouten, J. A. und van der Kulk, W.
Theorie der Systeme Pfaffscher Gleichungen. I. 145
Schrödinger, E.
Proper vibrations of the expanding universe. 125
Method of determining quantum-mechanical eigenvalues and eigenfunctions. 277
Schubarth, E.
Normal-diskontinuierliche lineare Gruppen in zwei komplexen Variablen. 162
Schuh, J. F.
Élasticité théorique, basée sur les principes énergétiques. 187
Schumann, T. E. W.
Principles of a mechanical method for calculating regression equations and multiple correlation coefficients and for the solution of simultaneous linear equations. 253
Schwartz, H. M.
A class of continued fractions. 217
Scorza Dragoni, G.
A proposito di un teorema sulle equazioni differenziali ordinarie. 235
Scott, S. A.
Elementary methods in the theory of numbers. 135
Scott, W. T. (Cf. Leighton, W.)
Approximation to real irrationals by certain classes of rational fractions. 203
Scott, W. T. and Wall, H. S.
Convergence theorem for continued fractions. 217
Continued fraction expansions for arbitrary power series. 296
Sčypanoff, P.
Congruences de systèmes d'éléments d'un groupe. 258
Sedov, L. I.
Application of the theory of functions of a complex variable to some problems of the plane hydrodynamics. 89
Seetharaman, V.
Methods of generating differential invariants with special reference to path-spaces of order 2. 274
Segal, B.
Approximation of complex numbers by a sum of powers of integers with a given complex exponent. 295
Seitter, H.
Kleine Schwingungen eines stark durchhängenden Seiles. 123
Selberg, H. L.
Verschärfung der Tchebycheffschen Ungleichung. 245
Selberg, S.
Reihe für die Eulersche Konstante, die von E. Jacobsthal und V. Brun angegeben ist. 216
Serbin, H.
Weierstrass preparation theorem. 210
Sestini, G.
Dinamica di un particolare sistema piano. 182
Seth, B. R.
Motion of a liquid set up by a moving regular polygonal cylinder. 89
Two dimensional potential problems connected with rectilinear boundaries. 286
Severina, B.
Coefficienti di elasticità nei corpi isotropi a strati e la loro determinazione. 189
Sewell, W. E. (Cf. Walsh, J. L.)
Integral approximation and continuity. 140
Continuity and degree of approximation by rational functions. 309
Shabde, N. G.
Results involving Legendre and Bessel functions. 232
Series and integrals involving k_n-functions. 232
Shah, S. M.
Integral functions of perfectly regular growth. 112
Inequality for the arithmetical function $g(x)$. 201
Theorem on integral functions of integral order. 307

Shapiro, G. M.
Eigenwerte in normed structures. 327
Shaw, J. B.
Algebras defined by groups whose members are of the form A^xB^y. 105
Sheffer, I. M.
Properties of polynomial sets of type zero. 15
Shiels, K. G. See Millar, A. V.
Shiffman, M.
Plateau problem for minimal surfaces of arbitrary topological structure. 79
Plateau problem for non-relative minima. 79
Shmushkovitch, V.
Combinatorial theorem of the theory of sets. 206
Shohat, J. A.
Definite integrals and Riemann sums. 72
Application of orthogonal Tchebycheff polynomials to Lagrangean interpolation and to the general theory of polynomials. 143
Shreve, D. R.
Certain class of symmetric hypersurfaces. 167
Shukla, P. D.
Non-differentiable function of Denjoy. 207
Sibagaki, W.
Critical points of a real function of n independent variables on a hypersurface defined by $m(<n)$ equations in these variables. 297
Sibata, T.
Spinor calculus. II. 177
Sicardi, F.
Unicità della soluzione di un'equazione a derivate parziali del 4° ordine a caratteristiche multiple. 77
Sidon, S.
Potenzreihen mit monotoner Koeffizientenfolge. 213
Orthogonalsysteme. 333
Siegel, C. L.
Einführung in die Theorie der Modulfunktionen n-ten Grades. 203
Sierpinski, W.
Un théorème de la théorie de la mesure. 206
Ensembles des nombres ordinaux de classes I et II. 206
Silberstein, L.
Hystero-differential equation arising in a probability problem. 150
Simmons, N.
Free stream-line flow past a vortex. 185
Free stream-line flow past vortices and aerofoils. 185
Simonart, F.
Enveloppes et congruences associées à une courbe. 28
Séries hypergéométriques. 233
Simonoff, N.
Erste Randwertaufgabe der nichtlinearen elliptischen Gleichung. 315
Simpson, H.
Extension of Savary's theorem. 85
Singh, A. N.
Hindu trigonometry. 289
Sinkov, A.
Note on a paper by J. A. Todd. 43
Sirvint, G.
Un théorème de Vladimir Bernstein. 228
Sispanov, S.
Generalization of a theorem of Laguerre. 1
Skolem, T.
Remarks on decomposition of polynomials into sums of two squares. 97
Über gewisse Ringe mit Anwendung auf die Produktzerlegung von Polynomen. 102
Induktionsschemata in der rekursiven Zahlentheorie. 132
Slonimsky, G. L.
Laws of deformation of real materials. I. 287
Smiley, M. F.
Measure functions in a lattice. 240
Smirnoff, N.
Écarts de la courbe de distribution empirique. 246
Estimation of the discrepancy between empirical curves of distribution for two independent samples. 345
Smith, B. B. See Kendall, M. G.
Smith, F. C.
Logarithmic solutions of the generalized hypergeometric equation when $p=q+1$. 55
Relations among the fundamental solutions of the generalized hypergeometric equation when $p=q+1$. II. 234
Smith, P. A.
Transformations of finite period. II. 30
Šmulian, V. (Cf. Krein, M.)
Geometrical properties of the sphere in a space of type (B). I, II. 242
Principle of inclusion in the space of the type (B). 335
Soboleff, S.
Théorie des équations hyperboliques aux dérivées partielles. 237
Évaluation de quelques sommes pour une fonction définie sur un réseau. 298
Sobrero, L.
Problema di elettrostatica. 223
Sokolnikoff, I. S.
Advanced calculus. 46
Sokoloff, B. D.
Triangle à reverbération. 256
Solovieff, P. V.
Résolution des équations du type elliptique et du type parabolique pour les petits domaines. 315
Solutions périodiques de certaines équations nonlinéaires du quatrième ordre. 315
Somigliana, C.
Complementi alla teoria del campo gravitazionale ellisoidico. 182
Southwell, R. V.
Natural frequencies of vibrating systems. 237
Spain, B.
Interpolated derivatives. 296
Specht, W.
Gruppen linearer Substitutionen. II. 162
Wurzelabschätzungen bei algebraischen Gleichungen. 193
Speiser, A.
Funktionalgleichung der Dirichletschen L-Funktionen. 70
Spencer, D. C.
Hardy-Littlewood problem of diophantine approximation. 203
Sprague, R.
Zerlegung des Quadrats in lauter verschiedene Quadrate. 79
Theorie der Umfüll-Aufgaben. 199
von Stachó, T.
Randsingularität Laplacescher Transformierten. 113
Starkey, D. M.
Distribution of the multiple correlation coefficient in periodogram analysis. 152
Stebakov, S.
Fundamentalsatz der Theorie der bikompakten Räume. 318
Steck, M.
Minimalmodell einer endlichen ebenen projektiven Inzidenzgeometrie und die Unabhängigkeit der beiden schwachen Stetigkeitsaxiome von den Inzidenzaxiomen. 81
Schwaches E. P.-Axiom und die Beweise der Anordnungsaxiome. 260
Steen, S. W. P.
Introduction to the theory of operators. IV. 147
Steffensen, J. F.
Divided differences. 75

Stein, K.
Zweites Cousinsche Problem und die Quotientendarstellung meromorpher Funktionen mehrerer Veränderlichen. 215
Steller, E. T.
Critical remarks on some important points in actuarial science. I, II. 23, 155
Stern, E.
General formulas for the number of magic squares belonging to certain classes. 65
Produits magiques et panmagiques. 133
Kursformeln für Anleihen mit gleichmässig gestaffeltem Zins. 155
Sternberg, W.
General limit theorem in the theory of probability. 246
Sterne, T. E.
Gravitational motion of a pair of rigid bodies. 124
Stevens, W. L.
Solution to a geometrical problem in probability. 245
Stewart, C. A.
Advanced calculus. 299
Stock, J. S.
Method of graphic interpolation. 126
Stock, J. S. and Frankel, L. R.
Allocation of samplings among several strata. 23
Stoker, J. J. (Cf. Friedrichs, K. O.)
Unbounded convex point sets. 168
Stone, M. H.
General theory of spectra. I. 338
Stopher, E. C., Jr.
Point set operators and their interrelations. 45
Storchi, E.
Nuova dimostrazione di un teorema sui numeri primi. 290
Stoyanoff, A.
Remarques sur "de circuli magnitudine inventa" de Huygens. 126
Strodt, W.
Zeros of irregular Taylor's series, and an approximation problem. 309
Su, B.
Plane sections of the tangent surface of a space curve. 84
Suetuna, Z.
Zerlegung der Gruppencharaktere. 161, 258
Suguri, T.
Problem of class of Riemannian spaces. 272
Sulaiman, S.
Astronomical consequences of relativistic two-body problem. 184
Sumner, D. B.
Orientable manifolds constructed from a solid cube. 317
Sundaram, S. Minakshi. See Minakshi Sundaram.
Suñer y Balaguer, F.
On a theorem of Professor Picard. 213
Swingle, P. M.
Finitely-containing connected set. 220
Szász, O. (Cf. Barnett, J. A.)
Cesàro and Riesz means of Fourier series. 138
Order of the partial sums of Fourier power series. 138
Strong summability of Fourier series. 329
Szegö, G.
Orthogonal polynomials. 14
Gradient of solid harmonic polynomials. 137
Szekeres, G.
Problem über mehrere ebene Bereiche. 264
v. Sz. Nagy, B.
Geometrisches Extremalproblem. 264
Szökefalvi Nagy, G.
Geschlecht der einschaligen Flächen vom Maximalindex. 167

Ta, Li. See Li, Ta.
Tagg, E. D.
Surfaces which contain an irrational pencil of rational curves. 26

Takagi, M.
Statistical domain theory of ferromagnetic crystals. I, II. 277
Takahashi, S.
New properties of Bohr almost periodic Fourier series. 140
Takasu, T.
Differentialgeometrien in den Kugelräumen. Bd. II. Laguerresche Differentialkugelgeometrie. 86
Neue Verallgemeinerungen der L-Minimalflächen. 173
Takeda, K.
Line congruences. III. 170
Takeno, H.
Cosmology in terms of wave geometry. V. 184
Tamada, K.
Flow of a compressible fluid past a sphere. 185
Application of the hodograph method to the flow of a compressible fluid past a circular cylinder. 284
Tambs Lyche, R.
Expression simple pour une fonction continue sans dérivée. 109
Courbe simple sans courbure. 109
Tarski, A.
Undecidable statements in enlarged systems of logic and the concept of truth. 34
Tatuzawa, T.
Irreduzibilität gewisser ganzzahliger Polynome. 194
Taub, A. H.
Spinor equations for the meson and their solution when no field is present. 95
Tensor equations equivalent to the Dirac equations. 95
Solutions of equations for particles of spin zero or one when no field is present. 352
Taussky, O.
Algebraic property of Laplace's differential equation. 15
Taussky, O. and Todd, J.
Characterisation of algebraic numbers. 134
Taylor, A. E.
Theorem concerning analytic continuation for functions of several complex variables. 50
Extension of linear functionals. 58
Weak topologies of Banach spaces. 108
Taylor, J. H.
Vector analysis. 46
Tchakaloff, L.
Propriétés des développements de Taylor d'une certaine classe de fonctions. 212
Trigonometrische Polynome mit einer Minimumeigenschaft. 225
Tchakaloff, L. and Karanicoloff, C.
Résolution de l'équation $Ax^m+By^n=z^p$ en nombres rationnels. 200
Tchelidze, W. G.
Necessary and sufficient condition that the double Fourier-Lebesgue series of a function belonging to $L^{(3)}$ should be convergent. 226
Tchounikhin, S. A.
Sätze über einfache Gruppen. 161
Teichmüller, O.
Erreichbare Randpunkte. 8
Braucht der Algebraiker das Auswahlaxiom? 34
Temliakow, A.
Harmonische Funktionen von drei Veränderlichen mit einer meromorphen zugehörigen Funktion. 311
Terheggen, H. See Blaschke, W.
Thébault, V.
Nombres curieux. 134
Géométrie du triangle et du tétraèdre. 156
Sphere connected with a tetrahedron. 156
Curiosités arithmétiques. 199
Thiruvenkata Char, V. R.
Formulae involving the Laguerre and Hermitian polynomials and Bessel functions. 142

Thomas, I.
Selections illustrating the history of Greek mathematics. 33
Thomas, T. Y.
Reducible Riemann spaces and their characterization. 88
Imbedding theorems in differential geometry. 88
Decomposition of Riemann spaces in the large. 271
Thomas, T. Y. and Titt, E. W.
Elementary solution of the general linear differential equation of the second order with analytic coefficients. 120
Thrane, P.
Zirkulare Wirbel einer Atmosphäre mit nach oben abnehmender Temperatur. 286
Thureau-Dangin, F.
Sketch of a history of the sexagesimal system. 129
Tietze, H.
Symmetrische Funktionen von endlich oder abzählbar unendlich vielen Veränderlichen. I, II. 97, 323
Tihanyi, M.
Verallgemeinerte Lagrangesche Resolvente. 324
Tintner, G.
Elasticities of expenditure in the dynamic theory of demand. 24
Variate difference method. 250
Titchmarsh, E. C.
Expansions in eigenfunctions. 56
Titt, E. W. (Cf. Thomas, T. Y.)
Initial value problem for all hyperbolic partial differential equations of second order with three independent variables. 57
Todd, J. See Taussky, O.
Todd, J. A.
A theorem of Severi. 83
Geometrical invariants of algebraic loci. II. 84
Postulation of a multiple variety. 168
Tognetti, M.
Omografie permutabili con una omografia singolare. 98
Tolman, R. C.
Stability of spheres of simple mechanical fluid held together by Newtonian gravitation. 90
Stability of stellar models, with remarks on the origin of novae. 90
Tolstoff, G.
Propriétés des fonctions approximativement continues. 206
Intégrale de Perron. 208
Méthode de M. Perron pour l'intégrale de M. Denjoy. 305
Tonelli, L.
Su alcuni funzionali. 77
Funzioni di intervallo. 303
Tonolo, A.
Trasporto delle coordinate geografiche e dell'azimut lungo un arco di linea qualunque di un ellissoide di rotazione. 85
Töpfer, H.
Iteration der ganzen transzendenten Funktionen, insbesondere von $\sin z$ and $\cos z$. 211
Torrance, E. M.
Superposition on monotonic functions. 303
Toscano, L.
Formule limiti sui polinomi di Laguerre. 116
Trasformazione di Gauss e i polinomi di Hermite. 232
Townes, S. B.
Table of reduced positive quaternary quadratic forms. 134
Tranter, C. J.
Problem in the conduction of heat. 181
Travers, J.
Rules for bordered magic squares. 39
Treloar, A. E.
Elements of statistical reasoning. 63
Tricomi, F.
Dimostrazione della formula di Stirling relativa ad $n!$, per via del tutto elementare. 73
Tricomi, F. (Continued)
Frequenza dei numeri interi decomponibili nella somma di due potenze k-esime. 201
Determinazione delle estremali di un certo integrale. 243
Lezioni di analisi matematica. II. 298
Integrale doppio presentatosi in aerodinamica. 300
Trjitzinsky, W. J.
Singular integral equations with real kernels. 17
Tschakaloff, L. See Tchakaloff.
Tschernikow, S.
Unendliche spezielle Gruppen. 162
Tschuprow, A. A.
Principles of the mathematical theory of correlation. 151
Tsuji, M. (Cf. Kakeya, S.)
Lindelöf's theorem in the theory of differential equations. 178
Tucker, A. W.
Algebraic structure of complexes. 105
Chain-mappings carried by cell-mappings. 105
Tummers, J. H.
Remarkable points and lines of a conic section. 80
Turán, P. (Cf. Erdös, P.)
Ableitung von Polynomen. 37
Primzahlen der arithmetischen Progression. II. 135
Turnbull, H. W.
James Gregory (1638–1675). 33
Theory of equations. 36
James Gregory Tercentenary Memorial Volume. 129
Turri, T.
Omografie quadrato di antiomografie. 194
Condizioni per la identità prioettiva di antiomografie. 324
Turrière, É.
Nouvelle courbe de transition pour les raccordements progressifs: la radioïde pseudo-elliptique. 73
Turton, F. J.
Errors in the numerical solution of differential equations. 126
Two notes on the numerical solution of differential equations. 126
Tweedie, M. C. K.
Solution of a certain class of differential equations. 314
Tzénoff, I.
Points simples et points singuliers des courbes planes. 300

Uhler, H. S.
Recalculation and extension of the modulus and of the logarithms of 2, 3, 5, 7 and 17. 252
Ulam, S. M. See Oxtoby, J. C.
Ulrich, F. E.
Problem of type for a certain class of Riemann surfaces. 8
Uspensky, J. V. and Heaslet, M. A.
Elementary number theory. 38
Uzkow, A. I.
Idealtheorie der kommutativen Ringe. I. 198
Abstract foundation of Brandt's theory of ideals. 327

Vahlen, T.
Körperinhalt, nichteuklidisch. 156
Vajda, S.
Wahrscheinlichkeit einer bestimmten Auszahlungssumme. 23
Val, P. Du. See Du Val.
Valeiras, A.
Question in geometry relative to power series. 210
van Buuren, C. L. See Buuren.
Vance, E. P.
Generalizations of non-alternating and non-separating transformations. 223
van Dantzig, D. See Dantzig.
van de Laar, W. See Laar.

Van den Akker, J. A.
Mechanical integrator for evaluating the integral of the product of two functions and its application to the computation of I. C. I. color specifications from spectrophotometric curves. 31
van den Dungen, F.-M. See Dungen.
van der Corput, J. G. See Corput.
van der Kulk, W. See Kulk.
Van der Lijn, G.
Définition fonctionnelle des polynômes dans les groupes abéliens. 259
Polynomes abstraits. I. 259
van der Waerden, B. L. See Waerden.
Vandiver, H. S.
Congruences involving the Bernoulli numbers. 4
Basis systems for groups of ideal classes in a properly irregular cyclotomic field. 68
Composition of the group of ideal classes in a properly irregular cyclotomic field. 68
Imbedding of one semi-group in another, with application to semi-rings. 105
Euler number criteria for the first case of Fermat's last theorem. 200
General methods for obtaining congruences involving Bernoulli numbers. 200
van Driel, M.-J. See Driel.
van Kampen, E. R. See Kampen.
Varela Gil, J.
Determination of the total curvature of a closed curve. 84
Varma, R. S.
Infinite integrals involving parabolic cylinder functions. 117
Polynomial $\pi_n(x)$. 231
Infinite series involving Sonine's polynomial. 231
Pair of functions which are Fourier Bessel transforms of each other. 331
Vasseur, M.
Déformation d'une surface avec un réseau conjugué permanent dans l'espace elliptique. 86
Vázsonyi, E.
Gitterpunkte des mehrdimensionalen Raumes. 105
Vedenissoff, N.
Généralisation de quelques théorèmes sur la dimension. 107
Venkatarayudu, T.
7–15 problem. 1
Venkatasubbiah, G.
Methods of constructing magic squares. 133
Verblunsky, S.
Introduction to the theory of functions of a real variable. 109
Vernotte, P.
Intégration de l'équation de la convection naturelle. 57
Méthode très générale pour étudier le début des perturbations régies par les équations aux dérivées partielles de la physique mathématique. Application à la chaleur et à l'hydrodynamique. 179
Vescan, T. T.
Orbites relativistes des planètes. 60
Solution of a functional equation dependent on a supplementary condition. 182
Vessiot, E.
Théorie nouvelle de la réductibilité des équations algébriques. 194
Vickery, C. W.
Axioms for Moore spaces and metric spaces. 317
Vietoris, L.
Integration gewöhnlicher Differentialgleichungen durch Iteration. III. 119
Vignaux, J.-C.
Familles normales de fonctions holomorphes (α). 49
Séries simples et doubles asymptotiques de Dirichlet. 50
Functions of one and of several complex variables on any surface. 216
Vijayaraghavan, T.
Irrationality of a certain decimal. 134
Conjecture of Gillis. 204
Villa, M.
Ricerche sulle varietà V_k che posseggono $\infty^s E_2$ di $\gamma_{1,3}$, con particolare riguardo al caso $k=4$, $\delta=8$. 168
Nuove ricerche nella teoria delle curve quasi-asintotiche. 168
Superficie quasi-asintotiche della V_4^6 di S_8 che rappresenta le coppie di punti di due piani. 268
Vincensini, P.
Réseaux isothermes sphériques. 171
Généralisations de quelques problèmes de géométrie différentielle et certains cycles de congruences. 173
Vincent, J. J.
Mathematical theory of shuttle projection. 19
Vinogradow, I.
Simplest trigonometrical sums with primes. 293
Distribution of primes of an arithmetical progression to a given modulus. 293
Viola, T.
Stabilità degli integrali delle equazioni differenziali lineari, omogenee e a coefficienti costanti. 234
Voellmy, E.
Fünfstellige Logarithmen und Zahlentafeln. 125
Volberg, O.
Problème de la queue stationnaire et non-stationnaire. 345
von Koppenfels, W. See Koppenfels.
von Mises, R. See Mises.
von Neumann, J. See Neumann.
von Schelling, H. See Schelling.
von Stachó, T. See Stachó.
von Sz. Nagy, B. See Sz. Nagy.
de Vries, G. See Niessen, K. F.

van der Waerden, B. L.
Vertrauensgrenzen für unbekannte Wahrscheinlichkeiten. 249
Zenon und die Grundlagenkrise der griechischen Mathematik. 289
Wagner, K. W.
Begründung und Sinn der Operatorenrechnung nach Heaviside. 179
Wagner, R. W.
Extension of analytic functions to matrices. 312
Wald, A.
Limits of a distribution function determined by absolute moments and inequalities satisfied by absolute moments. 14
New formula for the index of cost of living. 24
Contributions to the theory of statistical estimation and testing hypotheses. 152
Analysis of variance with unequal class frequencies. 248
Approximate determination of indifference surfaces by means of Engel curves. 251
Wald, A. and Wolfowitz, J.
Test whether two samples are from the same population. 348
Walker, A. G.
Relativistic mechanics. I. 283
Walker, R. J. See Rosser, B.
Wall, H. S. See Scott, W. T.
Wallace, A. D.
Characterizations of interior transformations. 30
Monotone coverings and monotone transformations. 222
0-regular transformations. 222
Wallace, P. R. See Infeld, L.
Walsh, J. L.
Interpolation by functions analytic and bounded in a given region. 10
Circles of curvature of the images of circles under a conformal map. 111
Curvature of orthogonal trajectories of level curves of Green's function. III. 210

Walsh, J. L. (Continued)
Degree of convergence of sequences of rational functions. 309
Degree of convergence of sequences of analytic functions. 310
Walsh, J. L. and Sewell, W. E.
Degree of trigonometric and polynomial approximation to an analytic function, in the sense of least pth powers. 309
Ward, M. (Cf. Birkhoff, G.)
Ring homomorphisms which are also lattice homomorphisms. 2
General rational solution of the equation $ax^3-by^3=z^3$. 4
Arithmetical properties of modular lattices. 197
Ward, M. and Dilworth, R. P.
Lattice theory of ova. 2
Warren, A. G.
Mathematics applied to electrical engineering. 108
Watson, G. N.
Eigenschaften des Ramanujanschen Kettenbruches. 70
Three triple integrals. 205
Watson, W. H.
Potential momentum and momentum fields in dynamics. 278
Weatherburn, C. E.
Transverse vibrations of curved membranes. 188
Weber, E.
Electrostatic field produced by a point charge in the axis of a cylinder. 24
Webster, M. S.
Certain Lagrange interpolation polynomials. 74
Wecken, F.
Abstrakte Integrale und fastperiodische Funktionen. 12
Wehrlé, P. See Dedebant, G.
Weil, A.
Calcul des probabilités, méthode axiomatique, intégration. 340
Weinberg, A. M. (Cf. Offner, F.)
Equivalence of the conduction theories of Rashevsky and Rushton. 351
Weinel, E.
Erweiterung des Grammelschen Verfahrens zur Berechnung von Eigenwerten und Eigenfunktionen. 252
Weinstein, A.
Théorie unitaire des valeurs propres des membranes et des plaques encastrées. 237
Weisner, L.
Condition that a finite group be multiply isomorphic with each of its irreducible representations. 6
Weitzenböck, R.
Theorie der Komplexgrössen a_{ijk}. 157
Satz über assoziierte Geraden im R_4. 166
Affine Invarianten bei Kegelschnitten. 263
Affingeometrie der F_2 im R_3. 263
Lineare Linienkomplexe bei vier Geraden im R_4. 263
Assoziierte Geraden bei Regelflächen im R_4. 270
Welch, B. L. (Cf. Johnson, N. L.)
Distribution of maximum likelihood estimates. 153
Discriminant functions. 154
Werjbitzky, B.
Questions de la théorie des séries de compositions de plusieurs matrices. 325
Wernick, W.
Enumeration of logical functions. 131
de Wet, J. S.
Connection between the spin and statistics of elementary particles. 279
Weyl, H.
Invariants. 5
Addition to my note "On unitary metrics in projective space." 25
Classical groups. Their invariants and representations. 42
Whitmore, W. F.
Convergence theorems for functions of two complex variables. 311
Whitney, H.
Combinatorial properties of complexes. 220
Theory of sphere-bundles. 220
Whitrow, G. J.
Lobatchewskian trigonometry of a static substratum. 125
Whittaker, J. M. and Wilson, R.
Fabry's theorem and the isolated essential singularity of finite exponential order. 113
Whyburn, G. T. (Cf. Hall, D. W.)
Existence of certain transformations. 30
Semi-locally connected sets. 31
Irreducibility of transformations. 45
Non-alternating interior retracting transformations. 45
Relation between non-alternating and interior transformations. 319
Whyburn, W. M.
Over and under functions as related to differential equations. 144
Widder, D. V. See Boas, R. P., Jr.
Wieghardt, K.
Auftriebsverteilung des einfachen Rechteckflügels über die Tiefe. 91
Wiener, N. See Cameron, R. H.
Wilder, R. L.
Property S_n. 45
Wilenski, H. See Przyborowski, J.
Wilkes, M. V. See Lennard-Jones, J. E.
Wilks, S. S. and Daly, J. F.
Optimum property of confidence regions associated with the likelihood function. 64
Willers, F. A.
Beullast abgestufter Kreisplatten. 21
Williams, F. C. (Cf. Blackett, P. M. S.)
Reversible head for the automatic curve following device. 128
Williamson, J.
Exponential representation of canonical matrices. 35
Principal axis transformation for non-hermitian matrices. 98
Exponential representation of automorphs of a symmetric or hermitian matrix. 98
Wilson, R. See Whittaker, J. M.
Winn, C. E.
Minimum number of polygons in an irreducible map. 316
Winternitz, A.
Begründung der projektiven Geometrie: Einfährung idealer Elemente unabhängig von der Anordnung. 260
Wintner, A. (Cf. Erdös, P.; Hartman, P.; Kac, M.; van Kampen, E. R.)
Almost periodic behavior of the lunar node. 124
Ergodic analysis of the remainder term of mean motions. 147
Spektra der Toeplitzschen D-Formen. 228
Riemann's hypothesis and almost periodic behavior. 294
Wirtinger, W.
Minimalaufgabe im Gebiete der analytischen Funktionen von mehreren Veränderlichen. 10
Translationsmannigfaltigkeiten, welche zu Kurven vom Geschlechte Null oder Eins gehören. 114
Witt, G.
Berechnung der Koeffizienten der Störungsfunktion. 10
Berechnung der Perioden der elliptischen Integrale. 32
Wittich, H.
Konforme Abbildung einer Klasse Riemannscher Flächen. 211
Wolf, F.
Extension of the Phragmén-Lindelöf theorem. 48
Summable trigonometrical series: an extension of uniqueness theorems. 225
Wolfowitz, J. See Wald, A.
Woodger, J. H.
Technique of theory construction. 131

Wright, E. M. (Cf. Fuchs, W. H. J.)
Asymptotic expansion of integral functions defined by Taylor series. 212
Wright, H. N.
First course in theory of numbers. 38
Wrona, W. See Haantjes, J.
Wygodski, M.
Mathematics of the ancient Babylonians. 289
Wylie, S.
Duality and intersection in general complexes. 317

Yamada, K.
Kriterium für die Nichteinfachheit der Gruppen. 162
Yamamoto, H.
Gravitational perturbation for the Dirac electron. 190
Yamauti, S.
Zwei Bemerkungen über den Produktraum. 107
Yano, K.
Théorie des espaces à connexion conforme. 88
Équations de Gauss dans la géométrie conforme des espaces de Riemann. 175
Équations de Codazzi dans la géométrie conforme des espaces de Riemann. 175
Theory of non-holonomic spaces. 176
Conformally separable quadratic differential forms. 273
Yates, F.
Tests of significance of the differences between regression coefficients derived from two sets of correlated variates. 23
Apparent inconsistency arising from tests of significance based on fiducial distributions of unknown parameters. 153
Yosida, K.
Asymptotic almost periodicities and ergodic theorems. 148
Markoff process with a stable distribution. 343
Yosida, K. and Kakutani, S.
Birkhoff's ergodic theorem and the maximal ergodic theorem. 59
Markoff process with an enumerable infinite number of possible states. 62
Young, G. (Cf. Offner, F.)
Convective diffusion in parallel flow fields. 284
Young, L. C.
An inequality of Marcel Riesz. 7
Youngs, J. W. T. (Cf. Radó, T.)
K-cyclic elements. 221
Yvon, J.
Équations de Dirac-Madelung. 278

Zaanen, A. C.
Orthogonal systems of functions. 141
Zacharias, M. See Nehring, O.
Zapff, J.
Ausgleichung von Sterbetafeln unter besonderer Berücksichtigung der Gewichte der Einzelbeobachtungen. 349
Zappa, G.
Non-semplicità di alcuni gruppi d'ordine pari. 43
Ampliamento degli automorfismi. 44
Zaremba, S.
Réflexions sur les fondements de la mécanique rationnelle. 281
Zariski, O.
Reduction of the singularities of an algebraic surface. 26
Algebraic varieties over ground fields of characteristic zero. 102
Zassenhaus, H.
Gedenken an Hans Fitting. 34
Zilsel, E.
Copernicus and mechanics. 129
Zito, C.
Esplicitazioni sulle trasformazioni conformi dello spazio. 174
Zorn, M.
Continuous groups and Schwarz' lemma. 9
Zuckerman, H. S.
Expansions of certain modular forms of positive dimension. 214
Computation of the smaller coefficients of $J(\tau)$. 294
Zwirner, G.
Problema di valori al contorno per equazioni differenziali del secondo ordine. 75
Osservazione su un problema ai limiti per le equazioni differenziali. 75
Un teorema sulle equazioni differenziali del secondo ordine. 235
Problemi di valori ai limiti per equazioni differenziali ordinarie. 235
Criterio di esistenza per un problema di valori al contorno per equazioni differenziali del secondo ordine. 235
Zygmund, A. (Cf. Marcinkiewicz, J.)
Théorème de M. Fejér. 9
Formal multiplication of trigonometrical series. 11

SUBJECT INDEX

The sign * is used to mark only those books which contain a general exposition of the field in question.

ABELIAN GROUPS. See: groups (Abelian groups).

ABELIAN INTEGRALS AND GENERALIZATIONS. Cf. Algebraic functions; algebraic geometry.

Hornich, H. 49

ABSOLUTE DIFFERENTIAL CALCULUS. See: differential geometry (Riemannian geometry); vector calculus (tensors).

ABSOLUTELY MONOTONE FUNCTIONS. See: Fourier integrals (Laplace integrals); functions of complex variables (power series); moments.

ABSTRACT SPACES. See: differential geometry (Finsler spaces); ergodic theory; functional analysis; functions of real variables (functions in abstract spaces); measure and integration; sets; topology (topological spaces).

ACOUSTICS. Cf. Mechanics of continua; numerical methods (practical harmonic analysis).

Jones, R. C. 118

ACTUARIAL MATHEMATICS. Cf. Probability; statistics.

Mathematics of finance. Cf. Economics; numerical methods (equations).

Kerrich, J. E. 23 · Polidori, C. 155 · Kershner, R. 252
Goldziher, K. 32 · Meidell, B. 252 · Hagstroem, K. G. 349
Stern, E. 155

Analysis of mortality. Cf. Statistics (biometrics).

Kriehl, L. 154 · Lukacs, E. 252 · Zapff, J. 349
Steller, E. T. 155 · Rich, C. D. 349

Insurance.

Vajda, S. 23 · Steller, E. T. 155 · Fischer, K. 251
Steller, E. T. 23 · Rusting, F. H. 155 · Meissner, W. 251
Berger, A. 23 · Ackermann, W.-G. 251 · Franckx, E. 349

ADDITIVE NUMBER THEORY. See: number theory (additive).

AERODYNAMICS. See: mechanics of continua; numerical methods (practical harmonic analysis).

AFFINE DIFFERENTIAL GEOMETRY. See: differential geometry (conformal).

AGGREGATES. See: sets.

ALGEBRA: ABSTRACT. Cf. Algebra: linear; elementary geometry (geometry in fields); groups.

Galois fields. Cf. Algebra: equations (classical Galois theory).

Carlitz, L. 101 · Carlitz, L. 324
Jacobson, N. 198 · Tihanyi, M. 324

Lattices, Boolean algebras, rings, fields. Cf. Functional analysis (operators); logic; number theory.

Birkhoff, G.-Ward, M. 2 · MacDuffee, C. C. 100 · Mori, S. 198
Ward, M. 2 · Levitzki, J. 100 · Asano, K. 198
Ward, M.-Dilworth, R. P. 2 · Asano, K. 100 · Levi, F. W. 198
Iyanaga, S. 101 · Krasner, M. 198
Hopkins, C. 2 · Mori, S. 101 · Becker, M. F.-MacLane, S. 198
Everett, C. J., Jr. 2 · Lorenzen, P. 101 · Smiley, M. F. 240
Hebroni, P. 2 · Ritt, J. F.-Rauden-bush, H. W., Jr. 101 · Pospíšil, B. 241
Perlis, S. 2 · McCoy, N. H. 325
Nakayama, T. 3 · Ritt, J. F.-Kolchin, E. R. 101 · *Birkhoff, G. 325
MacLane, S. 3 · Skolem, T. 102 · Foradori, E. 327
Arf, C. 4 · Krull, W. 102 · Klein-Barmen, F. 327
MacLane, S.-Schilling, O. F. G. 4 · Asano, K. 103 · Shapiro, G. M. 327
Baer, R. 6 · Baer, R. 104 · Kubo, K. 327
Klein-Barmen, F. 37 · Shaw, J. B. 105 · Uzkow, A. I. 327
Dilworth, R. P. 37 · Vandiver, H. S. 105 · Mori, S. 327
McCoy, N. H. 37 · Ogasawara, T. 132 · Moriya, M. 327
Krull, W. 37 · Kawada, Y.-Kondô, K. 164 · Nakayama, T. 327
Schilling, O. F. G. 38 · Gurr, C. E. 195 · Kalscheuer, F. 328
Weyl, H. 42 · *Krull, W. 195, 196 · MacLane, S. 328
Rinehart, R. F. 99 · Dilworth, R. P. 197 · Schilling, O. F. G. 328
*Albert, A. A. 99 · Ward, M. 197 · Albert, A. A. 328
*Hermes, H.-Köthe, G. 99 · Maeda, F. 197 · Bannow, E. 328
Etherington, I. M. H. 99 · Uzkow, A. I. 198 · Ditkin, V. 336
Jacobson, N. 100 · Stone, M. H. 338

ALGEBRA: ABSTRACT. (Continued)

Fields of functions. Cf. Algebraic functions; algebraic geometry; number theory (analytic theory).

MacLane, S.-Schilling, O. F. G. 26 · MacLane, S. 102 · Schilling, O. F. G. 328
Moriya, M. 38 · Zariski, O. 102 · Gelfand, I. 330, 331
MacLane, S. 328

ALGEBRA: EQUATIONS. Cf. Polynomials.

*Dickson, L. E. 1 · *Barnard, S.-Child, J. M. 193
*Turnbull, H. W. 36

Symmetric functions. Cf. Combinatorial analysis.

Tietze, H. 97 · Foussianis, C. 323 · Tietze, H. 323

Zeros. Cf. Functions of complex variables (zeros); numerical methods (equations); polynomials (zeros).

Corliss, J. J. 1 · Palamà, G. 97 · Kneser, H. 322
Kneser, H. 36 · Specht, W. 193 · Levi, B. 323
Ostrowski, A. 97 · Anghelutza, T. 193 · Caracciolo, M. S. 323
Colucci, A. 97 · Obreschkoff, N. 193 · Anghelutza, T. 323
Romanini, C. 97 · Komischke, A. 193 · Ostrowski, A. 323

Classical Galois theory. Cf. Algebra: abstract (Galois fields).

Krull, W. 102 · Foulkes, H. O. 194
Vessiot, E. 194 · Tihanyi, M. 324

Systems of equations, elimination.

Polvert, J. 193

Special equations.

Eagle, A. 1 · Bohlin, K. 36 · Cantoni, R. 97

ALGEBRA: LINEAR (CLASSICAL THEORY). Cf. Algebra: abstract; analytic geometry; groups; numerical methods (systems).

*Aitken, A. C. 35 · *Barnard, S.-Child, J. M. 193

Matrices, determinants; general theory. Cf. Series (transformation).

Blumenthal, L. M. 35 · Rados, G. 98 · Wagner, R. W. 312
Jacobson, N. 35 · Oldenburger, R. 99 · Mattioli, E. 324
Williamson, J. 35 · Rinehart, R. F. 99 · Ko, C.-Lee, H. C. 324
McCoy, N. H. 37 · Foulkes, H. O. 194 · McCoy, N. H. 325
Rella, T. 98 · Petr, K. 195 · Werjbitzky, B. 325
Williamson, J. 98 · Ledermann, W. 195 · McCrea, W. H. 325
Radon, J. 98 · Gurr, C. E. 195 · Aitken, A. C. 346
Tognetti, M. 98

Special matrices, determinants.

Collar, A. R. 1 · Rados, G. 194 · Bottema, O. 194
Bennett, G. T. 97 · Turri, T. 194 · Gruner, W. 195
Oldenburger, R. 194

Hypercomplex systems.

Etherington, I. M. H. 99 · McCrea, W. H. 325
Jacobson, N. 100 · Bannow, E. 328

Linear forms and equations. Cf. Functional analysis (equations); number theory.

Potron 97

Quadratic and bilinear forms. Cf. Functional analysis (equations); number theory.

Jacobson, N. 35 · Williamson, J. 98 · Rados, G. 194
Behrend, F. 36 · Radon, J. 98 · Givens, W. 195
Rados, G. 98 · Finsler, P. 168 · Jacobson, N. 325

Forms of higher degree. Cf. Number theory.

Chanler, J. H. 35 · Behrend, F. 36 · Oldenburger, R. 194, 324

Characteristic values, elementary divisors.

Girshick, M. A. 22 · Williamson, J. 98 · Oldenburger, R. 324
Potron 97 · Bottema, O. 194 · Turri, T. 324
Rella, T. 98

ALGEBRA OF LOGIC. See: algebra: abstract (lattices); logic.

ALGEBRAIC FUNCTIONS. Cf. Abelian integrals; algebra: abstract (fields); algebraic geometry; elliptic functions; functions of complex variables (Riemann surfaces).

Wirtinger, W. 114 · Brödel, W. 211
Jung, H. W. E. 115 · Jung, H. W. R. 215

ALGEBRAIC GEOMETRY. Cf. Abelian integrals; algebraic functions; analytic geometry; elementary geometry (configurations).

Amodeo, F. 165 Krull, W. 195, 196 Amodeo, F. 260

Special curves and surfaces. Cf. Calculus (applications); elementary geometry (conic sections).

Battaglia, A. 80 Pompilj, G. 83 Haenzel, G. 262
Emch, A. 82 Sanguineti, J. 165 Billing, G.-Mahler, K. 266
Apéry, R. 82 Kommerell, K. 166 Emch, A. 266
Amin, A. Y. 82 Châtelet, F. 166 Fano, G. 266
Bompiani, E. 82, 83 Fano, G. 166

Curves: general theory.

Tagg, E. D. 26 Farina, M. 167 Du Val, P. 266
Behrend, F. 36 Bompiani, E. 167 Defrise, P. 266
Babbage, D. W. 83 Brusotti, L. 167 Longhi, A. 267
Todd, J. A. 83 Villa, M. 168 Fischer, I. C. 267
Kubota, T. 166 Bompiani, E. 170 Cherubino, S. 267
Amodeo, F. 167 Siegel, C. L. 203 Hollcroft, T. R. 267

Surfaces, varieties: general theory.

Tagg, E. D. 26 Todd, J. A. 84 Lense, J. 168
MacLane, S.-Schilling, O. F. G. 26 Zariski, O. 102 Todd, J. A. 168
Zariski, O. 26 Brusotti, L. 167 Hollcroft, T. R. 267
Eger, M. 55 Shreve, D. R. 167 Pompilj, G. 267
Franchetta, A. 83 Szökefalvi Nagy, G. 167 Brusotti, L. 267
Macpherson, R. E. 83 Bonera, P. 167 Bompiani, E. 267
Morin, U. 83 Villa, M. 168 Villa, M. 268
Finsler, P. 168 Gandin, R. 268

Cremona transformations.

Gentry, F. C. 26 Cherubino, S. 82
Coble, A. B. 27 Purcell, E. J. 268

ALGEBRAIC INVARIANTS. See: invariants (algebraic).

ALGEBRAIC NUMBERS. See: number theory.

ALMOST PERIODIC FUNCTIONS. Cf. Dirichlet series; Fourier series.

Hartman, P. 12 Kac, M. 136 Kaluza, T., jun. 227
Wecken, F. 12 Pitt, H. R. 139 Wintner, A. 294
Lewitan, B. 53 Takahashi, S. 140 Brauers, N. 330
van Kampen, E. R. 53 Bochner, S. 140 Kawata, T. 330
Kac, M.-van Kampen, E. R.-Wintner, A. 53 Wintner, A. 147 Iyanaga, S.-Kodaira, K. 330
Yosida, K. 148
Bochner, S. 110 Kawada, Y. 163 Gelfand, I. 331
Wintner, A. 124 Kac, M.-van Kampen, E. R.-Wintner, A. 203 Ditkin, V. 336

ANALYTIC GEOMETRY. Cf. Algebra: linear; elementary geometry; vector calculus.

*Amodeo, F. 165, 260

Euclidean and projective space.

Mehmke, R. 25 Mehmke, R. 157 Pentkowsky, M. W. 254
Weyl, H. 25 Egerváry, E. 157 Brahana, H. R. 257
Tognetti, M. 98 Weitzenböck, R. 166 Prola, L. 257

Complex space.

Kruppa, E. 25 Lense, J. 168 Blaschke, W.-Terheggen, H. 261
Gambier, B. 157

Lines and higher space elements. Cf. Differential geometry (differential line geometry; Laguerre geometries; geometry of lineal elements).

Kruppa, E. 25 Weitzenböck, R. 157 Schatz, H. 157
Haenzel, G. 25 Kárteszi, F. 157 Weitzenböck, R. 263

ANALYTIC THEORY OF NUMBERS. See: number theory.

APPROXIMATION AND EXPANSION OF FUNCTIONS. Cf. Differential equations (boundary value problems); Fourier integrals; Fourier series; functions of complex variables (complex interpolation); interpolation; numerical methods.

*Szegö, G. 14

General theory.

McEwen, W. H. 11 Hille, E. 141, 142 Eichler, M. 237
Sewell, W. E. 140 Dieulefait, C. 143 Ibraguimoff, I. 310
Hartman, P. 140 Boas, R. P., Jr. 229 Raikov, D. A. 333
Moore, M. G. 141 Inoue, M. 230

Orthogonal functions and expansions. Cf. Polynomials (polynomial approximations).

Jackson, D. 15 Peebles, G. 230 Iyengar, K. S. K. 332
Gröbner, W. 74 Banerjee, D. P. 230 Sidon, S. 333
Zaanen, A. C. 141

Completeness theorems.

Boas, R. P., Jr. 229 Muzen, P. 333
Iyengar, K. S. K. 332 Hadwiger, H. 333

Best approximation.

Wirtinger, W. 10 Walsh, J. L.-Favard, J. 54, 230 Sewell, W. E. 309

AREA. See: measure and integration (area).

ARITHMETICAL FUNCTIONS. See: number theory (number-theoretical functions).

ASTRONOMY.

Celestial dynamics.

Johnsen, L. 19 Kopal, Z. 60 Sterne, T. E. 124
Chazy, J. 20 Wintner, A. 124 Chazy, J. 282

3 and n-body problem.

Karamata, J. 11 Buchanan, D. 124 Orlov, A. A. 282
Pedersen, P. 60 Dramba, C. 183 Hilmy, H. 339

Perturbations.

Witt, G. 10 Fabre, H. 20

Orbits.

Baños, A., Jr. 60 Fabre, H. 60 Vescan, T. T. 60

Figures of equilibrium.

Tolman, R. C. 90 Ganguly, H. K. 184 Dive, P. 282
Moghe, D. N. 125 Moghe, D. N. 184 Banerji, A. C. 282

Astrophysics.

Gyllenberg, W. 32 Tolman, R. C. 90
Chandrasekhar, S. 60 Gleissberg, W. 282

Cosmology. Cf. Relativity.

Moghe, D. N. 20 Chou, P. Y. 125 Banerji, A. C. 282
McVittie, G. C. 20 Schrödinger, E. 125 Walker, A. G. 283
Einstein, A. 61 Whitrow, G. J. 125 Jehle, H. 283
Armellini, G. 61 Takeno, H. 184

ASTROPHYSICS. See: astronomy (astrophysics).

ASYMPTOTIC EXPANSIONS. See: approximation.

ATOMS. See: quantum mechanics.

AUTOMORPHIC FUNCTIONS. See: elliptic functions (automorphic functions).

AXIOMATICS. Cf. Logic; philosophy.

Woodger, J. H. 131

Theory of proofs.

Tarski, A. 34 Bochvar, D. A. 321 Church, A. 321
Mostowski, A. 34 Löwenheim, L. 321 Gégalkine, I. 322
Skolem, T. 132 Leonard, H. S.-Goodman, N. 321 Ackermann, W. 322
Péter, R. 132

Intuitionism. Cf. Philosophy (intuitionism).

Ogasawara, T. 132 Kneser, H. 322 Levi, B. 323

Theory of sets.

Burckhardt, J. J. 132

Analysis.

Lorenzen, P. 7 Bachmann, F. 46
Teichmüller, O. 34 Levi, F. W. 322

Geometry.

Prüfer, H. 80 Bottema, O. 165 Reidemeister, K. 261
Kubota, T. 81 Gorn, S. 165 Bachmann, F. 261
Steck, M. 81 Winternitz, A. 260 Jenks, F. P. 261
Glagoleff, N. 132 Steck, M. 260 Blumenthal, L. M.-Robinson, C. V. 263
Köthe, G. 132

Probability.

*von Mises, R. 61 McKinsey, J. C. C. 61 Koopman, B. O. 245

BALLISTICS.

García, G. 182 Larrea Bancayan, M. 182

BANACH SPACES. See: functional analysis; topology (topological spaces).

BERNOULLI NUMBERS. See: differences; series (special sequences).

BERNOULLI POLYNOMIALS. See: differences; polynomials (special).

BESSEL FUNCTIONS. See: special functions (Bessel functions).

BEST APPROXIMATION. See: approximation (best approximation).

BIHARMONIC FUNCTIONS. See: harmonic functions (biharmonic functions).

BILINEAR FORMS. See: algebra: linear (quadratic forms).

BIOGRAPHY. See: history (biography).

BIOLOGICAL PROBLEMS. Cf. Statistics (biometrics).

Feller, W. 22 | Feller, W. 250 | Glivenko, V. I. 348
Etherington, I. M. H. 99 | Backman, G. 251 | Weinberg, A. M. 351
Bartlett, M. S. 248 | Leonard, H. S.-Goodman, N. 321 | Offner, F.-Weinberg, A.-Young, G. 351
Haldane, J. B. S. 250

BIOMETRICS. See: statistics (biometrics).

BIRATIONAL TRANSFORMATIONS. See: algebraic geometry (Cremona transformations).

BOOLEAN ALGEBRAS. See: algebra: abstract (lattices); logic.

BOUNDARY VALUE PROBLEMS. See: differential equations (boundary value problems); functional analysis (existence theorems); harmonic functions (Dirichlet problem); heat conduction; integral equations; numerical methods (differential equations); operational calculus.

CALCULUS. Cf. Axiomatics (analysis); differentiation of fractional order; inequalities; vector calculus.

*Miller, F. H. 7 | Cassina, U. 109 | Gonzalez, M. O. 299
Chand, H. 10 | de Losada y Puga, C. 144 | Rashevski, P. 299
*Gillespie, R. P. 46 | Alt, W. 297 | Ionesco, D. V. 299
*Sokolnikoff, I. S. 46 | Sibagaki, W. 297 | Rinehart, R. F. 300
Baidaff, S. I. 72 | *Tricomi, F. 298 | Capelli, P. F. 300
Opatowski, I. 72 | *Dresden, A. 299 | Ferrar, W. L. 300
Tricomi, F. 73 | *Stewart, C. A. 299 | Puig Adam, P. 300
*Warren, A. G. 108 | *Middlemiss, R. R. 299 | Huntington, E. V. 300
*Verblunsky, S. 109 | Bohr, H. 299

Definite integrals.

Bonder, J. 8 | Raynor, G. E. 72 | Watson, G. N. 205
Shohat, J. A. 72 | Varma, R. S. 117 | Tricomi, F. 300
Arley, N. 72

Contour integrals, Green formulas.

Menger, K. 72 | Alessi, J. M. 205
Fulton, D. G. 72 | Fubini, G. 205

Applications to geometry.

Ionesco, D. V. 27, 28 | Pedrazzini, P. 73 | Ruban, A. N. 300
Kasner, E.-De Cicco, J. 48 | Sanguineti, J. 165 | Salgaller, V.-Kostelianetz, P. 300
Turrière, É. 73 | Humbert, P. 172 | Opatowski, I. 300
Egger, H. 73 | Tzénoff, I. 300 | Berzolari, L. 300
Dolap:schiew, B. 300

CALCULUS OF VARIATIONS.

*Green, J. W.-Lewy, H. 77

General theory.

Reid, W. T. 19 | Hölder, E. 78 | Mancill, J. D. 243
Morse, M. 77 | Radon, J. 98 | McShane, E. J. 243, 244
McShane, E. J. 78 | Goldstine, H. H. 146 | Douglas, J. 244
Douglas, J. 78 | Berwald, L. 177 | Sibagaki, W. 297

Multidimensional.

Sakellariou, N. 78 | Reid, W. T. 78 | Cole, N. 243

Isoperimetric problems. Cf. Isoperimetric problems.

Bol, G. 81

In the large.

Douglas, J. 19

Topological problems.

Elsholz, L. 319, 320 | Chogoshvili, G. S. 320 | Morse, M. 320

Direct methods. Cf. Numerical methods (differential equations).

Graves, L. M. 19 | Tonelli, L. 77

Minimal surfaces. Cf. Differential geometry (minimal surfaces).

*Green, J. W.-Lewy, H. 77 | Shiffman, M. 79 | Courant, R.-Douglas, J. 244 | Davids, N. 244

Special problems.

Tolman, R. C. 90 | Pauc, C. 109 | Tricomi, F. 243

Generalized geometrical theory. Cf. Differential geometry (Finsler spaces).

Menger, K. 244

CAPACITY. See: polynomials (polynomial approximations); potential theory (capacity constants).

CAUCHY INTEGRAL AND THEOREM. See: functions of complex variables.

CELESTIAL MECHANICS. See: astronomy.

CHARACTERISTIC VALUES. See: algebra: linear (characteristic values); differential equations (boundary value problems); functional analysis (existence theorems); integral equations; numerical methods (differential equations).

CHARACTERS. See: groups; number theory.

CIRCLES AND SPHERES, GEOMETRY OF. See: analytic geometry (lines); differential geometry (Laguerre geometry).

CIRCUITS. See: electricity (networks).

COMBINATORIAL ANALYSIS. Cf. Number theory (elementary).

Venkatarayudu, T. 1 | Bose, R. C. 199 | Sprague, R. 199
Dantzig, G. B. 21 | Cox, G. M. 199 | Fisher, R. A. 348
Norton, H. W. 199

COMPARISON AND OSCILLATION THEOREMS. See: differential equations (ordinary linear).

COMPLEX SPACE. See: analytic geometry (complex space).

CONFIGURATIONS. See: elementary geometry (configurations).

CONFORMAL DIFFERENTIAL GEOMETRY. See: differential geometry (conformal).

CONFORMAL MAPPING. See: differential geometry; functions of complex variables.

CONIC SECTIONS. See: elementary geometry (conic sections).

CONSTRUCTIONS. See: elementary geometry (theory of constructions); logic.

CONTACT TRANSFORMATIONS. Cf. Differential equations; differential geometry; groups (continuous).

Hölder, E. 78 | Neumer, W. 163

CONTINGENT. See: differential geometry (set-theoretical methods); functions of real variables (differentiation).

CONTINUED FRACTIONS AND GENERALIZATIONS. Cf. Diophantine approximations; number theory.

Mall, J. 7 | Watson, G. N. 70 | Schwartz, H. M. 217
Leighton, W.-Scott, W. T. 7 | Bennett, G. T. 97 | Scott, W. T.-Wall, H. S. 296
Knopp, K. 46 | Scott, W. T.-Wall, H. S. 217
Hancock, H. 67

CONTINUOUS GEOMETRY.

Halperin, I. 30, 45 | v. Neumann, J.-Halperin, I. 108 | Birkhoff, G. 325

CONTINUOUS GROUPS. See: groups (continuous).

CONTINUUM, PROBLEM OF. See: sets (transfinite numbers).

CONVERGENCE IN MEAN. See: approximation; Fourier integrals (summability); Fourier series (convergence); functional analysis; polynomials (polynomial approximation); series (convergence).

CONVEX BODIES AND SETS. Cf. Differential geometry (differential geometry in the large; deformation); isoperimetric problems; number theory (geometry of numbers; lattice points).

Moskovitz, D.-Dines, L. L. 58 | Minoda, T. 138 | Beretta, L.-Maxia, A. 264
Hancock, H. 67 | Fiala, F. 138 | Dinghas, A. 265
Bol, G. 81 | Stoker, J. J. 168 | Alexandroff, A. D. 265
Miranda, C. 86 | Gericke, H. 169 | Moskovitz, D.-Dines, L. L. 335
Fejes, L. 157 | Pauc, C. 263 | Price, G. B. 335
Neumann, B. H. 158 | Fejes, L. 263
Bol, G. 158 | Geppert, H. 264

CONVEX FUNCTIONS. Cf. Harmonic functions (subharmonic functions); inequalities.

Young, L. C. 7 | John, F. 72 | Popoviciu, T. 204
Popoviciu, T. 71 | Mandelbrojt, S. 137

CORRELATION. See: statistics (correlation).

COSMOLOGY. See: astronomy (cosmology).

CREMONA TRANSFORMATIONS. See: algebraic geometry (Cremona transformations).

CRYSTALLOGRAPHY. See: groups (crystallography).

CURVES. See: algebraic geometry; calculus (applications); differential geometry; elementary geometry; functions of real variables (differentiation); topology.

CYLINDRIC FUNCTIONS. See: special functions (Bessel functions).

DEFINITE INTEGRALS. See: calculus (definite integrals).

DEMOGRAPHY. See: actuarial mathematics (analysis of mortality); statistics (biometrics).

DENJOY INTEGRALS. See: measure and integration (Denjoy theory).

DERIVATIVES, THEORY OF. See: functions of real variables (differentiation); measure and integration (abstract theory).

DESCRIPTIVE GEOMETRY.

*Larkins, J. T., Jr. 25 | Prüfer, H. 80 | Rinner, K. 128
*Millar, A. V.-Shiels, K. G. 25 | Fourcade, H. G. 128 | *Prager, W. 155

DETERMINANTS. See: algebra: linear (matrices; special matrices); numerical methods (systems of linear equations).

DIFFERENCES: FINITE. Cf. Functional equations; interpolation; numerical methods (differences).

*Jordan, C. 74 | Cassina, U. 143
Steffensen, J. F. 75 | Kesava Menon, P. 181

Difference equations.

John, F. 72 | Ritt, J. F.-Randenbush, H. W., Jr. 101 | Lancaster, O. E. 181

Summation formulas.

Fort, T. 50 | Cassina, U. 74

DIFFERENTIAL EQUATIONS. Cf. Astronomy; calculus of variations; contact transformations; functional analysis (existence theorems); integral equations; invariants (differential); mechanics; numerical methods (differential equations); operational calculus.

*Droste, H. W. 234

Elementary methods of integration.

*Ince, E. L. 54 | Mitrinovitch, D. S. 75

Formal theory.

Everett, C. J., Jr. 2 | Ritt, J. F.-Hebroni, P. 118 | Kolchin, E. R. 118
Rádl, F. 15 | Kolchin, E. R. 101 | Rádl, F. 144
Ritt, J. F.-Randenbush, H. W., Jr. 101 | | Krull, W. 196

Ordinary equations: existence and behavior of solutions: real domain.

Rosenblatt, A. 16 | Vietoris, L. 119 | Viola, T. 234
Rothe, E. 18 | Whyburn, W. M. 144 | Zwirner, G. 235
McShane, E. J. 54 | Nagumo, M. 177 | Scorza Dragoni, G. 235
Zwirner, G. 75 | Kakeya, S.-Tsuji, M. 178 | Zwirner, G. 235
Hardy, G. H. 75 | Tsuji, M. 178 | Kamke, E. 235
de Losada y Puga, C. 119 | Kamke, E. 179 | Rosenblatt, A. 236

Ordinary equations: complex domain.

Langer, R. E. 15 | Morant, J. 75 | Kun Kuti, M. 119

Ordinary linear equations.

Langer, R. E. 15 | Mambriani, A. 144 | Miller, F. H. 234
Kamke, E. 54 | Palamà, G. 144 | Rainville, E. D. 234
Li, Ta. 75 | Chiellini, A. 178 | Viola, T. 234
Kienast, A. 75 | Fréchet, M. 178 | Bulgakov, B. V. 236
Rainville, E. D. 144 | Bourgin-Duffin 180

Ordinary equations: special types. Cf. Ballistics; calculus (applications); special functions.

Vincent, J. J. 19 | Hulme, H. R. 93 | Chiellini, A. 178
Rothe, E. 54 | Silberstein, L. 150 | Simonart, F. 233
Smith, F. C. 55 | Hopf, E. 172 | Sansone, G. 234
Keller, E. G. 93 | Gorélik, G. 177 | Tricomi, F. 243

DIFFERENTIAL EQUATIONS. (Continued)

Total equations, Pfaff problem.

Eger, M. 55 | Chern, S.-S. 145 | Drach, J. 178
Germay, R. H. J. 119 | Germay, R. H. J. 145 | Germay, R. H. J. 178
Schouten, J. A.-van der Kulk, W. 145 | Finikoff, S. 173 | Chow, W.-L. 313

Partial equations: first order: general theory.

Saltykow, N. 33 | Schmidt, E. 76 | Saltykow, N. 313
Carleman, T. 55 | Rodabaugh, L. D. 313 | Chow, W.-L. 313

Partial equations: second order: general theory.

Orloff, C. 76 | Picone, M. 180 | Buzano, P. 313
Davis, A. W. 76 | Saltykow, N. 236 | Tweedie, M. C. K. 314
Cerf, G. 120 | Eichler, M. 237 | Doetsch, G. 314
Vernotte, P. 179 | Kosambi, D. D. 313

Partial equations: second order: elliptic. Cf. Electricity; harmonic functions; mechanics of continua; potential theory.

Giraud, G. 56 | Giraud, G. 145 | Lagrange, R. 238
Miranda, C. 86 | Leray, J. 179 | Simonoff, N. 315
Thomas, T. Y.-Titt, E. W. 120 | Mangeron, D. 181 | Solovieff, P. V. 315
| Petrowsky, I. G. 236

Partial equations: second order: parabolic. Cf. Diffusion; heat conduction; mechanics of continua.

Minakshi Sundaram, S. 16 | Solovieff, P. V. 315
Churchill, R. V. 57 | Karimov, D. K. 315

Partial equations: second order: hyperbolic. Cf. Electricity (waves); geophysics; mechanics of continua (wave propagation); potential theory.

Bădescu, R. 16 | Bourgin, D. G.-Duffin, R. 120 | *Baker, B. B.-Copson, E. T. 315
Minakshi Sundaram, S. 16 | Thomas, T. Y.-Titt, E. W. 120 | Mindlin, J. A. 316
Titt, E. W. 57 | Soboleff, S. 237 | Einaudi, R. 316
Mathisson, M. 120

Partial equations of higher order. Cf. Mechanics of continua.

Vernotte, P. 57 | Mangeron, D. 181 | Gran Olsson, R.-Reissner, E. 288
Bateman, H. 77 | Petrowsky, I. G. 236 | Lukchin, V. S. 313
Sicardi, F. 77 | Mangeron, D. 237

Partial equations: special types. Cf. Special functions.

Germay, R. H. J. 16 | Titchmarsh, E. C. 56 | Dedebant, G.-Moyal, J.-Wehrlé, P. 246
Kasner, E.-De Cicco, J. 48 | Piaggio, H. T. H. 119 | Graustein, W. C. 270
Erdélyi, A. 55 | Chaundy, T. W. 119 | Solovieff, P. V. 315
| Howell, W. T. 120

Applications of integral transforms: ordinary and partial. Cf. Operational calculus.

Churchill, R. V. 57 | Bourgin, D. G.-Duffin, R. 180 | Jaeger, J. C. 223
McLachlan, N. W. 70 | Jaeger, J. C. 180 | Husimi, K. 224
Carslaw, H. S.-Jaeger, J. C. 77 | Amerio, L. 180 | *Droste, H. W. 234
Howell, W. T. 120 | Droste, H. W. 180 | Miller, F. H. 234
Wagner, K. W. 179 | Picone, M. 180 | Rainville, E. D. 234
| Mangeron, D. 181 | Picone, M. 236

Boundary value and expansion problems, characteristic values: ordinary and partial. Cf. Harmonic functions (Dirichlet problem).

McEwen, W. H. 11 | Green, J. W.-Lewy, H. 77 | Zwirner, G. 235
Friedrichs, K.-Horvay, G. 13 | Lennertz, J. 91 | Scorza Dragoni, G. 235
Langer, R. E. 15 | Friedrichs, K. O.-Stoker, J. J. 91 | Zwirner, G. 235
Minakshi Sundaram, S. 16 | | Kamke, E. 235
Rothe, E. 54 | Pleijel, Å. 121 | Southwell, R. V. 237
van den Dungen, F.-H. 56 | Zaanen, A. C. 141 | Weinstein, A. 237
Titchmarsh, E. C. 56 | Giraud, G. 145 | Simonoff, N. 315
Pleijel, Å. 56 | Kamke, E. 179 | Solovieff, P. V. 315
Zwirner, G. 75 | Bourgin, D. G.-Duffin, R. 180 | Karimov, D. K. 315
Collatz, L. 76 | Amerio, L. 180 | Solovieff, P. V. 315
| | O'Brien, K. E. 334

DIFFERENTIAL GEOMETRY.

*Hlavatý, V. 27

Set-theoretical methods (natural and finite differential geometry). Cf. Functions of real variables (differentiation).

Roger, F. 47 | Haupt, O. 169 | Blumenthal, L. M.-Robinson, C. V. 263
Haupt, O. 82 | Marchaud, A. 169 | Pauc, C. 263
Pauc, C. 109 | Haupt, O.-Nöbeling, G.-Pauc, C. 169
Stoker, J. J. 168

Elementary differential geometry.

Cameron, E. A. 27 | Bell, P. O. 84, 85 | Coleman, A. J. 269
Simonart, F. 28 | van Kampen, E. R. 85 | Becqué, J. 269
Pailloux, H. 28 | Bompiani, E. 170 | Cernov, N. M. 269
Finikoff, S. 28 | Hünke, A. 172 | Gambier, B. 269
Varela Gil, J. 84 | Rossinski, S. 173 | Mayer, O. 270
Rosca, R. 84 | Salini, U. 174 | Beckenbach, E. F. 312
Su, B. 84

Kinematical methods. Cf. Mechanics (kinematics).

Pailloux, H. 28 | Simpson, H. 85 | Becqué, J. 269

DIFFERENTIAL GEOMETRY. (Continued)

Special mapping problems. Cf. Geodesy (elementary).

Ansermet, A. 85 Kobold, F. 155 Lagrange, R. 238

Special curves and surfaces. Cf. Calculus (applications).

Ionesco, D. V. 27, 28 Abramescu, N. 170 Green, L. 268
Calugareanu, G. 85 Bompiani, E. 170 Cernov, N. M. 269
Tonolo, A. 85 Behari, R. 170 Pailloux, H. 286
Rangachariar, V. 170 Kanitani, J. 174

Minimal surfaces. Cf. Calculus of variations (minimal surfaces).

Hopf, E. 172 Courant, R. 270 Graustein, W. C. 270

Families and nets of curves, webs.

Finikoff, S. 28 Bol, G. 171 Bortolotti, E. 171
Lane, E. P.-MacQueen, M. L. 28 Bachmann, W. K. 171 Humbert, P. 172
Pietsch, H. 46 Vincensini, P. 171 Jonas, H. 172
Buzano, P. 86 Salini, U. 171 Vincensini, P. 173
Lane, E. P. 170 Sauer, R. 171 Gambier, B. 269

Differential line geometry. Cf. Analytic geometry (lines).

Haupt, O. 82 Vincensini, P. 173 Pylarinos, O. 270
Takeda, K. 170 Finikoff, S. 173 Bachvaloff, S. 270
Jonas, H. 172 Mayer, O. 270 Fubini, G. 271
Rossinski, S. 173 Weitzenböck, R. 270

Laguerre and other sphere geometries. Cf. Analytic geometry (lines).

*Takasu, T. 86 Takasu, T. 173
Schatz, H. 157 Paetz, G. 271

Geometry of lineal and higher space elements.

De Cicco, J. 84 Kasner, E.-De Cicco, J. 169 De Cicco, J. 169, 170

Topological problems. Cf. Topology (applications).

Hamburger, H. 172 Efimoff, N. 269

Differential geometry in the large, integral geometry. Cf. Convex bodies.

Löbell, F. 84 Hamburger, H. 172 Hopf, E. 243
Miranda, C. 86 Hopf, E. 172 Santaló, L. A. 265
Fiala, F. 158 Hedlund, G. A. 242

Geometry on surfaces, characterization by intrinsic properties.

Tonolo, A. 85 Calapso, R. 170 Efimoff, N. 269
Grünbaum, S. 85 Bachmann, W. K. 171 Alexander, H. W. 269
Miranda, C. 86 Vincensini, P. 171 Bochner, S. 271
Gericke, H. 169 Hopf, E. 172

Deformation of surfaces.

*Finikoff, S. 28 Jaeger, C. G. 85 Jonas, H. 172
Allendoerfer, C. B. 28 Vasseur, M. 86

Riemannian geometry. Cf. Relativity; vector calculus (tensors).

Cartan, E. 28 Sasaki, S. 174 Alexander, H. W. 269
Allendoerfer, C. B. 28 Calapso, R. 174 Bochner, S. 271
Coburn, N. 88 Castoldi, L. 175 Coburn, N. 271
Thomas, T. Y. 88 Berwald, L. 177 Thomas, T. Y. 271
Ficken, F. A. 88 Caldirola, P. 182 Suguri, T. 272
Thomas, T. Y. 88 Rosen, N. 183 Mutô, Y. 272

Conformal, affine and projective differential geometry.

Finikoff, S. 28 Lane, E. P. 170 Weitzenböck, R. 270
Bell, P. O. 84, 85 Bortolotti, E. 171 Fubini, G. 271
Kowalewski, G. 87 Hünke, A. 172 Pinl, M. 271
Fon, T.-C. 87 Vincensini, P. 173 Maxia, A. 272
Rasmusen, R. B. 87 Finikoff, S. 173 Schouten, J. A.-van Dantzig, D. 272
Popa, I. 87 Zito, C. 174 Sasaki, S. 273
Ficken, F. A. 88 Yano, K. 175 Levy, H. 273
Yano, K. 88 Sasaki, S. 175 Yano, K. 273
Levine, J. 89 Mutô, Y. 175 Barnett, I. A.-Reingold, H. 273
Haantjes, J.-Wrona, W. 89 Haantjes, J. 175
Bompiani, E. 170 Michal, A. D.-Mewborn, A. B. 176

Paths and connections. Cf. Vector calculus (tensors).

van der Kulk, W. 88 Kosambi, D. D. 176 Hashimoto, H. 274
Yano, K. 88 Kawaguchi, A. 176 Seetharaman, V. 274
Chern, S.-S. 145 Hombu, H. 176 Kosambi, D. D. 313
Mutô, Y. 175 Berwald, L. 177 Busano, P. 313
Hokari, S. 176 Hokari, S. 273

Finsler spaces, abstract spaces and other generalizations. Cf. Vector calculus (tensors).

Craig, H. V. 29 Haantjes, J.-Wrona, W. 89 Yano, K. 176
Michal, A. D. 29 Berwald, L. 89 Davies, E. T. 176
Michal, A. D.-Mewborn, A. B. 87 Michal, A. D.-Mewborn, A. B. 176 Johnson, M. M. 273
Levine, J. 89

DIFFERENTIAL INVARIANTS. See: invariants (differential).

DIFFERENTIATION AND INTEGRATION OF FRACTIONAL ORDER.

Erdélyi, A. 117 Takahashi, S. 140 Spain, B. 296

DIFFUSION. Cf. Heat conduction; probability (Markoff chains).

Lévy, P. 22 Potoček, J. 247 Kac, M. 344
Feller, W. 22 Young, G. 284 Offner, F.-Weinberg, A.-Young, G. 351

DIMENSIONAL ANALYSIS. See: mechanics (dimensional analysis).

DIOPHANTINE APPROXIMATIONS. Cf. Continued fractions.

Mahler, K. 39 Mahler, K. 202 Mahler, K. 295
Hasse, H. 67 Scott, W. T. 203 Gelfond, A. 295
Hancock, H. 67 Spencer, D. C. 203 Segal, B. 295
Koksma, J. F. 137

Equidistribution problems.

van der Corput, J. G.-Pisot, C. 66 Koksma, J. F. 202
van der Corput, J. G. 66 Erdös, P.-Turán, P. 217, 333

Transcendency problems. Cf. Continued fractions.

Hasse, H. 67 Koksma, J. F. 137
Niven, I. 71 Billing, G.-Mahler, K. 266

DIOPHANTINE EQUATIONS. See: number theory (Diophantine equations).

DIRECT DIFFERENTIAL GEOMETRY. See: differential geometry (set-theoretical methods).

DIRICHLET SERIES. Cf. Almost periodic functions; Fourier integrals; number theory (theory of primes; analytic theory; analytical tools).

Kienast, A. 41 Hille, E. 141, 142 Obrechkoff, N. 230
Vignaux, J.-C. 50 Biggeri, C. 210 Crum, M. M. 294
Minakshi Sundaram, S. 51 Sirvint, G. 228 Peterson, H. 294
Biggeri, C. 113, 140 Wintner, A. 228

Zeta functions and other special Dirichlet series.

Hartman, P. 12 Speiser, A. 70 Miyatake, O. 214
Davenport, H. 41 Gut, M. 136 Brun, V. 293
Hartman, P. 53 Schoeneberg, B. 203

DISTRIBUTION FUNCTIONS. See: Fourier integrals (Fourier-Stieltjes integrals); moments; probability (distribution functions); statistics (frequency functions).

DIVISIONS OF SPACE. See: elementary geometry (regular figures); groups (crystallography).

DOUBLE STARS. See: astronomy.

DYNAMICAL METEOROLOGY. See: geophysics (dynamical meteorology).

DYNAMICS. See: astronomy; mechanics (dynamics); symbolic dynamics.

ECONOMICS. Cf. Actuarial mathematics (mathematics of finance).

Preinreich 154, 155 Koopmans, T. 155 Wald, A. 251
Amoroso, L. 155 Tintner, G. 250 Hagstroem, K. G. 349

Index numbers.

Tintner, G. 24 Wald, A. 24, 251

EIGENVALUES. See: algebra: linear (characteristic values); differential equations (boundary value problems); functional analysis (existence theorems); integral equations; numerical methods (differential equations).

ELASTICITY. See: mechanics of continua (elasticity).

ELECTRICITY.

*Warren, A. G. 108

General theory. Cf. Quantum mechanics; relativity.

Manarini, M. 92 Riabouchinsky, D. 94 Pastori, M. 274
Agostinelli, C. 92, 93 Jaeger, J. C. 223 Infeld, L.-Schelkunoff, S. A. 93 Ferraro, V. C. A. 224 Wallace, P. R. 274

ELECTRICITY. (Continued)

Waves and radiation. Cf. Optics.

Niessen, K. F.-de Vries, G. 24
Fues, E. 93
Poritsky, H. 274
Blewett, J. P.-Ramo, S. 274
Müller, J. 275
Borgnis, F. 275
Buchholz, H. 275
King, R. 275
Buchholz, H. 350
Huxley, L. G. H. 350

Potentials. Cf. Potential theory (special potentials).

Weber, E. 24
Sobrero, L. 223
Adams, E. P. 223
Bellustin, S. V. 223
Ferraro, V. C. A. 224

Networks.

Jaeger, J. C. 180
Amerio, L. 180
Darlington, S. 275
Cauer, W. 350
Jaffe, D. L. 350
Weinberg, A. M. 351

Technical applications.

Keller, E. G. 93
Pipes, L. A. 93
Droste, H. W. 180

ELEMENTARY DIVISORS. See: algebra: linear (characteristic values).

ELEMENTARY GEOMETRY. Cf. Algebraic geometry (special curves); analytic geometry; axiomatics (geometry); convex bodies; descriptive geometry; geodesy (elementary); non-Euclidean geometry.

Locher-Ernst, L. 34

Triangles, polygons, tetrahedra.

Goodstein, R. L. 25
van de Laar, W. 25
Mehmke, R. 25
Hofmann, J. E. 79
van Buuren, C. L. 79
Loria, G. 79
Gulasekharam 79
Delens, P. 80
Gambier, B. 80
Leemans, J. 155
Goormaghtigh, R. 155
Rangaswami, K. 155
Patterson, B. C. 156
Thébault, V. 156
Mittelstaedt 165
Robinson, R. T. 166
Richmond, H. W. 261
Douglas, J. 261

Theory of constructions.

Marchetti, L. 79
Cantoni, R. 97
Jessen, B. 156

Regular figures and divisions of space.

Mehmke, R. 25
Hancock, H. 67
Sprague, R. 79
Nannei, E. 79
Nehring, O.-Zacharias, M. 156
Auluck, F. C. 156
Merz, K. 156
Gruner, W. 195
Douglas, J. 261

Configurations.

Coble, A. B. 27
Gambier, B. 80
Maier, K. 81
Emch, A. 82
Rickart, C. E. 165
Baron, H. 262
Maeda, J. 262
Dasgupta, P. N. 262
Haenzel, G. 262
Santaló, L. A. 265

Conic sections and quadrics.

Tummers, J. H. 80
Bouwkamp, C. J. 80
Bath, F. 80
Kárteszi, F. 157
Miyazaki, S. 166
Weitzenböck, R. 263

Projective geometry. Cf. Analytic geometry (Euclidean space).

*Locher, L. 80
*Prüfer, H. 80
Gutiérrez Novoa, L. 81
Steck, M. 81
Egerváry, E. 157
*Amodeo, F. 165, 260
Calapso, R. 262
Deaux, R. 262, 263
Weitzenböck, R. 263

Geometry in fields.

Köthe, G. 132
Bottema, O. 165
Rickart, C. E. 165

Elementary topology.

Merz, K. 156
Lebesgue, H. 316

ELIMINATION, THEORY OF. See: algebra: abstract; algebra: equations (systems); invariants (algebraic).

ELLIPTIC DIFFERENTIAL EQUATIONS. See: differential equations; electricity; functional analysis (existence theorems); harmonic functions; mechanics of continua; numerical methods (differential equations); potential theory.

ELLIPTIC FUNCTIONS AND RELATED TOPICS. Cf. Algebraic functions.

Elliptic functions and integrals.

Witt, G. 32
Baeschlin, C. F. 32
Uspensky, J. V.-Heaslet, M. A. 38
Fueter, R. 115

Theta functions.

Coble, A. B. 27
Watson, G. N. 70

Automorphic and modular functions.

Rankin, R. A. 69
Rademacher, H. 136
Rankin, R. A. 203
Siegel, C. L. 203
Zuckerman, H. S. 214
Lauritzen, S. 257
Zuckerman, H. S. 294

ENTIRE FUNCTIONS. See: functions of complex variables.

EQUIDISTRIBUTION FUNCTIONS. See: Diophantine approximations (equidistribution problems).

EQUILIBRIUM, FIGURES OF. See: astronomy (figures of equilibrium).

ERGODIC THEORY. Cf. Measure and integration; probability (Markoff chains); statistical mechanics; symbolic dynamics.

Oxtoby, J. C.-Ulam, S. M. 18
Dunford, N. 18
Dunford, N.-Pettis, B. J. 57
Kakutani, S. 59
Hartman, P.-Wintner, A. 59
Kakutani, S. 59
Yosida, K.-Kakutani, S. 59, 62
Wintner, A. 147
Fukamiya, M. 148
Yosida, K. 148
Izumi, S. 148
Birkhoff, G. 148
Alaoglu, L.-Birkhoff, G. 148
Kakutani, S. 150
Bochner, S. 239
Lorch, E. R. 242
Niemytzki, V. 242
Kershner, R. 242
Hedlund, G. A. 242
Hopf, E. 243
Dunford, N.-Pettis, B. J. 338
Alaoglu, L.-Birkhoff, G. 339
Cohen, L. W. 339
Maker, P. T. 339
Hilmy, H. 339
Hartman, P.-Wintner, A. 339
Onicescu, O.-Mihoc, G. 342
Yosida, K. 343
Kakutani, S. 343
Doob, J. L. 344

ERRORS, THEORY OF. Cf. Numerical methods (differences); statistics.

Baeschlin, C. F. 32
Rinner, K. 128
Feyer, E. 128

ESTIMATION, STATISTICAL. See: statistics (sampling theory).

EULER'S FORMULA. See: differences (summation formulas); numerical methods; series.

EULER'S NUMBERS. See: differences; series (special sequences).

EXPANDING UNIVERSE. See: astronomy (cosmology); relativity.

EXPANSIONS OF FUNCTIONS. See: approximation.

EXTREMAL PROBLEMS. See: calculus of variations; Fourier series (extremal problems); functions of complex variables (extremal problems); inequalities; isoperimetric problems; polynomials (extremal problems).

FACTORIAL SERIES. See: series (power series).

FERMAT. See: number theory.

FIELDS. See: algebra: abstract; number theory.

FIGURES OF EQUILIBRIUM. See: astronomy (figures of equilibrium).

FINANCE, MATHEMATICS OF. See: actuarial mathematics (mathematics of finance).

FINITE GEOMETRY. See: differential geometry (set-theoretical methods); elementary geometry (geometry in fields).

FINSLER SPACES. See: differential geometry (Finsler spaces); non-Euclidean geometry (Minkowski geometry).

FIXED POINTS. See: Fourier integrals (self-reciprocal functions); topology.

FORMS, THEORY OF. See: algebra: linear; number theory (arithmetic theory of forms).

FOUNDATIONS. See: axiomatics; logic; philosophy; probability (foundations).

FOUR-COLOR PROBLEM. See: topology (graphs).

FOURIER INTEGRALS, INTEGRAL TRANSFORMS. Cf. Differential equations (applications); number theory (analytical tools); numerical methods (practical harmonic analysis).

Classical theory.

Lévy, P. 226
González Domínguez 226
Boas, R. P., Jr. 227
Ruelle, U. 227
Martin, W. T. 330
Kober, H. 331

FOURIER INTEGRALS, INTEGRAL TRANSFORMS. (Continued)

Summability.

Cooper, J. L. B. 51 Mohanty, R. 227

Fourier-Stieltjes integrals, distribution functions. Cf. Moments; probability (distribution functions).

Cameron, R. H.-Wiener, N. 13
Cramér, H. 13
Kac, M.-van Kampen, E. R.-Wintner, A. 21
Kac, M.-van Kampen, E. R. 21
Erdős, P.-Wintner, A. 40
Erdős, P. 41, 52
van Kampen, E. R. 53
Hartman, P.-Wintner, A. 59
Kac, M. 62
Goodspeed, F. M. 74
Pitt, H. R. 139
Erdős, P. 139
Lévy, P. 226
González Domínguez 226
Kawata, T. 330
Gelfand, I. 330, 331

Hilbert transforms.

Cossar, J. 52 Goodspeed, F. M. 74 Lengyel, B. 146

Laplace integrals. Cf. Dirichlet series.

Molière, G. 24
Feller, W. 52
Dubourdieu, M. J. 73
von Stachó, T. 113
Biggeri, C. 140
Fujiwara, M. 180
Garten, V. 218
Lévy, P. 226
Avakumović, V. G. 228
Boas, R. P., Jr.-Widder, D. V. 228
Poli, L. 305
Pollard, H. 331
Biggeri, C. 332
Chlodovsky, I. 332

Mellin, Hankel and other transforms.

McLachlan, N. W. 12
Kober, H. 18
Macaulay-Owen, P. 52
Garten, V. 218
Doetsch, G. 228
Feldheim, E. 232
Toscano, L. 232
Varma, R. S. 331
Agnew, R. P. 331

Inversion formulas.

McLachlan, N. W. 12
Feller, W. 52
Dubourdieu, M. J. 73
Lengyel, B. 146
Boas, R. P., Jr.-Widder, D. V. 228
Crum, M. M. 228
Pollard, H. 331

Self-reciprocal functions and generalizations.

Fox, C. 51 Goodspeed, F. M. 74 Mohan, B. 140, 229, 331

FOURIER AND TRIGONOMETRIC SERIES. Cf. Almost periodic functions.

Trigonometric polynomials.

Favard, J. 73
Duffin, R. J.-Schaeffer, A. C. 205
Offord, A. C. 328

Extremal problems. Cf. Inequalities.

Tschakaloff, L. 225

Trigonometric interpolation.

Offord, A. C. 328

Fourier coefficients.

Schaeffer, A. C. 12
Salem, R. 73
König, B. 225
Bochner, S. 239

Convergence, summability.

Zygmund, A. 11
Marcinkiewicz, J. 11
Grünwald, G. 51
Carafa, M. 73
Salem, R. 138
Szász, O. 138
Izumi, S.-Kawata, T. 138
Maruyama, G. 138
Kawata, T. 139
Randels, W. C. 139
Hyslop, J. M. 139
Bochner, S. 217
Denjoy, A. 225
Izumi, S.-Kawata, T. 225
Wolf, F. 225
Beurling, A. 226
Lévy, P. 226
Tchelidze, W. G. 226
Mohanty, R. 227
Marcinkiewicz, J. 329
Szász, O. 329
Bosanquet, L. S. 329
Gelfand, I. 330, 331

Uniqueness theory.

Zygmund, A. 9 Wolf, F. 225

Complex functions methods.

Boas, R. P., Jr. 212
Herzig, A. 213
Beurling, A. 226
Walsh, J. L.-Sewell, W. E. 309

Generalized Fourier series. Cf. Approximation.

McEwen, W. H. 11
Jackson, D. 15
Boas, R. P., Jr. 52
Mohanty, R. 227

Harmonic analysis. Cf. Numerical methods (practical harmonic analysis).

Kampé de Fériet, J. 20 Pitt, H. R. 139

FRACTIONAL DIFFERENTIATION AND INTEGRATION. See: differentiation of fractional order.

FREQUENCY FUNCTIONS. See: probability; statistics.

FUNCTION FIELDS. See: algebra: abstract (fields); number theory (analytic theory).

FUNCTIONAL ANALYSIS. Cf. Measure (abstract theory); symbolic dynamics; topology.

Abstract spaces. Cf. Differential geometry (Finsler spaces); functions of real variables (functions in abstract spaces); sets.

Michal, A. D. 29
Löwner, K. 48
Paxson, E. W. 58
Hyers, D. H. 58
Moskovitz, D.-Dines, L. L. 58
Kober, H. 59
Kakutani, S. 59
Cartan, H.-Dieudonné, J. 107
Taylor, A. E. 108
Kakutani, S. 146
Dirac, P. A. M. 146
Riesz, F. 147
Haupt, O.-Nöbeling, G.-Pauc, C. 169
Calkin, J. W. 208
Morrey, C. B., Jr. 209
Dieudonné, J. 220
Novák, J. 221
Pauc, C. 240
Reid, W. T. 240
Eidelheit, M. 240
Kondô, M. 241
Radó, T.-Youngs, J. W. T. 241
Otchan, G. 241
Pospíšil, B. 241
Alaoglu, L. 241
Boas, R. P., Jr. 242
Šmulian, V. 242
Hadwiger, H. 242
Niemytzki, V. 242
Liapounoff, A. 302
Fantappiè, L. 317
Katětov, M. 317
Hyers, D. H. 318
Šmulian, V. 335
Fortet, R. 335
Moskovitz, D.-Dines, L. L. 335
Krein, M.-Šmulian, V. 335
Price, G. B. 335
Adams, C. R.-Morse, A. P. 337
Grosberg, J.-Krein, M. 338

Operators, rings of operators. Cf. Ergodic theory.

Wecken, F. 12
Nakano, H. 18
Kober, H. 18
Kneser, H. 36
Dunford, N.-Pettis, B. J. 57
Fortet, R. 58
Taylor, A. E. 58
Lorch, E. R. 58
Kakutani, S. 59
Rothe, E. 108
Lengyel, B. 146
v. Neumann, J. 146
Nakano, H. 147
Kodaira, K. 147
Steen, S. W. P. 147
Riesz, F. 147
Artemenko, A. 239
Plancherel, M. 239
Kondô, M. 240
Abe, M. 259
Ditkin, V. 336
Monteiro, A. 336
Fan, K. 336
Kunisawa, K. 337
Adams, C. R.-Morse, A. P. 337
Krein, M. 337
Grosberg, J.-Krein, M. 338
Dunford, N.-Pettis, B. J. 338
Plessner, A. 338
Nakano, H. 338
Stone, M. H. 338
Halperin, I. 338
Gelfand, I. 338

Equations in infinitely many variables.

Kantorovitch, L. 18 Tietze, H. 323

Existence theorems for differential, integral and functional equations.

Rothe, E. 18 Kantorovitch, L. 18 Godefroy, M. 146, 239

FUNCTIONAL DETERMINANTS. See: calculus.

FUNCTIONAL EQUATIONS: SPECIAL TYPES. Cf. Differences (difference equations); functional analysis (existence theorems); operational calculus.

Gorélik, G. 177
Nardini, R. 181
Ganapathy Iyer, V. 181
Vescan, T. 182
Jacobsthal, E. 182
Alt, W. 297

FUNCTIONAL SPACES. See: differential geometry (Finsler spaces); functional analysis; measure and integration; topology (topological spaces; applications).

FUNCTIONS OF COMPLEX VARIABLES. Cf. Abelian integrals; algebraic functions; Dirichlet series; elliptic functions; Fourier integrals (Laplace integrals; Mellin transforms; self-reciprocal functions); harmonic functions; number theory (analytic tools).

McLachlan, N. W. 70

Power series. Cf. Series (power series).

Badescu, R. 50
Kneser, H. 114
Valeiras, A. 210
Serbin, H. 210
Tchakaloff, L. 212
Sidon, S. 213
Robertson, M. S. 214
Cooke, R. H. 306
Denjoy, A. 306
Gelfond, A. 307
Strodt, W. 309

Zeros. Cf. Polynomials (zeros).

Obrechkoff, N. 49 Strodt, W. 309

Analytic continuation, singularities, overconvergence.

Denjoy, A. 9
Whittaker, J. M.-Wilson, R. 113
Biggeri, C. 113
von Stachó, T. 113
Brelot, M. 122
Hille, E. 141, 142
Edrei, A. 210
Biggeri, C. 210
Amerio, L. 218
Denjoy, A. 306

Cauchy integral and related topics. Cf. Calculus (contour integrals).

Privaloff, I. I. 305 Fédoroff, V. S. 306 Kryloff, W. 308

Schwarz lemma, Phragmén-Lindelöf principle and related topics.

Wolf, F. 48
Ganapathy Iyer, V. 49
Brelot, M. 114
Herzig, A. 213

Conformal mapping: general theory.

Zorn, M. 9
Keldysh, M. V. 48
Walsh, J. L. 111
Courant, R. 111
de Possel, R. 111
Koebe, P. 114
Walsh, J. L. 210
Schiffer, M. 210
Wittich, H. 211
Montel, P. 212
Lindemann, F. 306
Golusin, G. M. 306

FUNCTIONS OF COMPLEX VARIABLES. (Continued)

Conformal mapping: special problems and applications. Cf. Calculus of variations (minimal surfaces); differential geometry.

Zorn, M. 9 | Morris, R. M. 90 | von Koppenfels, W. 111
Sedov, L. I. 89 | Green, A. E. 90 | Hibbert, L. 211, 307
Seth, B. R. 89

Riemann surfaces, uniformization. Cf. Topology (covering surfaces).

Ulrich, F. E. 8 | Douglas, J. 19 | Wittich, H. 211
Teichmüller, O. 8 | Koebe, P. 114 | Brödel, W. 211

Entire and meromorphic functions, distribution of values.

Levi, E. 9 | Töpfer, H. 211 | Poli, L. 305
Maitland, B. J. 49 | Boas, R. P., Jr. 212 | Gelfond, A. 307
Shah, S. M. 112 | Wright, E. M. 212 | Shah, S. M. 307
Dinghas, A. 113 | Blanc, C. 213 | Helmer, O. 307
Pfluger, A. 113 | Beurling, A. 226 | Laurent-Schwartz 307
Kun Kuti, M. 119 | Boas, R. P., Jr. 227, 229 | Kober, H. 331
Hibbert, L. 211

Picard theorem and generalizations.

Jørgensen, V. 112 | Sufier y Balaguer, F. 213 | Helmer, O. 307
Robinson, R. M. 112 | Milloux, H. 213 | Anastassiadis, J. 307

Univalent functions, bounded functions and related topics.

Robertson, M. S. 9 | Maitland, B. J. 112 | Joh, K. 308
Zygmund, A. 9 | Herzig, A. 213 | Loomis, L. H. 308
Golusin, G. M. 49 | Basilevitch, I. 308 | Cauer, W. 350
Nehari, Z. 112 | Golusin, G. M. 308

Extremal problems, inequalities. Cf. Inequalities; polynomials (extremal problems).

Wirtinger, W. 10 | Montel, P. 212 | Kryloff, W. 308
Heins, M. H. 114 | Macintyre, A. 308 | Strodt, W. 309

Iteration.

Töpfer, H 211

Normal families.

Montel, P. 49 | Vignaux, J.-C. 49

Polynomial and other series expansions. Cf. Approximation; polynomials (polynomial approximations).

Heuser, P. 14 | Vignaux, J.-C. 50 | Hille, E. 141, 142
Obrechkoff, N. 49 | Reijnierse, J. M. 53

Complex interpolation and approximation. Cf. Interpolation.

Walsh, J. L. 10 | Strodt, W. 309 | Walsh, J. L. 309, 310
Maitland, B. J. 49 | Walsh, J. L.-Sewell, W. E. 309 | Lammel, E. 310
Reuter, G. 49 | Delange, H. 310
Boas, R. P., Jr. 212 | Sewell, W. E. 309 | Ibraguimoff, I. 310

Quasi-analytic functions and monogenic functions.

Vignaux, J.-C. 50 | Cartan, H.-Mandelbrojt, S. 297 | Gontcharoff, W. 298
Favard, J. 54 | Mandelbrojt, S. 297 | Perlin, I. E. 298
Gorny, A. 137 | Cartan, H. 297 | Kolmogoroff, A. 298
Kodama, S. 216

Other generalizations.

Vignaux, J.-C. 49 | Popoff, K. 207 | Wagner, R. W. 312
Popoff, K. 115 | Capelli, P. F. 300 | Beckenbach, E. F. 312
Poor, V. C. 115

Several variables.

Wirtinger, W. 10 | Behnke, H. 215 | Lelong, P. 311
Bergmann, S.-Marcinkiewicz, J. 10 | Fuchs, B. A. 215 | Fuchs, B. A. 311
Stein, K. 215 | Cartan, H. 312
Taylor, A. E. 50 | Vignaux, J. C. 216 | Martin, W. T. 330
Fuks, B. A. 50 | Temliakow, A. 311 | Bergman, S.-Martin, W. T. 332
Bergmann, S. 115 | Whitmore, W. F. 311
Fueter, R. 115

Functions of quaternion variables. Cf. Calculus (contour integrals).

Fueter, R. 115 | Eichler, M. 237

FUNCTIONS OF REAL VARIABLES AND GENERALIZATIONS. Cf. Calculus; functional analysis; inequalities; measure and integration; probability (random functions).

Denjoy, A. 109 | *Carathéodory, C. 205

One real variable.

Popoff, K. 109 | Good, I. J. 206 | Minakshisundaram 303
Vijayaraghavan, T. 204 | Tolstoff, G. 206 | Broudno, A. 303
Price, G. B. 206 | Popoff, K. 207 | Torrance, E. M. 303
Kronrod, A. 302

Several real variables.

Kempisty, S. 8 | Price, G. B. 48 | Morrey, C. B., Jr. 209
Krzyżański, M. 47 | Jeffery, R. L. 208 | Mulholland, H. P. 303
Adams, C. R.-Clarkson, J. A. 48 | Calkin, J. W. 208

FUNCTIONS OF REAL VARIABLES AND GENERALIZATIONS. (Continued)

Differentiation and tangents. Cf. Differential geometry (set-theoretical methods).

Marcinkiewicz, J.-Zygmund, A. 8 | Dickinson, D. R. 47 | Haupt, O.-Nöbeling, G.-Pauc, C. 169
Popoff, K. 109
Roger, F. 47 | Angheluţa, T. 110 | Popoff, K. 207

Non-differentiable functions and related topics.

Tambs Lyche, R. 109 | Shukla, P. D. 207

Functions in abstract spaces.

Bochner, S. 110 | Bochner, S. 239 | Hellmich, K. 336
Goldstine, H. H. 146 | Reid, W. T. 240 | Fan, K. 336
Godefroy, M. 146 | Kondô, M. 240, 241 | Kunisawa, K. 337
Price, G. B. 206 | Van der Lijn, G. 259

GALOIS THEORY. See: algebra: abstract (Galois fields); algebra: equations (classical Galois theory).

GAMMA FUNCTIONS. See: special functions (gamma function).

GENETICS. See: biological problems; statistics (biometrics).

GEODESY.

Elementary geodesy. Cf. Differential geometry (special mapping problems).

Ansermet, A. 85 | Tonolo, A. 85

Higher geodesy.

Somigliana, C. 182 | García, G.-Rosenblatt, A. 184 | Pendse, C. G. 281
Rosenblatt, A. 281

GEOMETRICAL OPTICS. See: optics (geometrical).

GEOMETRY. See: algebraic geometry; analytic geometry; axiomatics (geometry); calculus (applications); continuous geometry; convex bodies; descriptive geometry; differential geometry; elementary geometry; groups (crystallography); isoperimetric problems; non-Euclidean geometry; topology; vector calculus.

GEOMETRY OF NUMBERS. See: number theory (geometry of numbers).

GEOPHYSICS.

Dynamical meteorology.

Thrane, P. 286

Tides.

Hylleraas, E. A. 90

Seismic waves.

Scholte, J. G. 188

GRADUATION. See: errors; numerical methods (differences); statistics (frequency functions).

GRAPHICAL METHODS. See: numerical methods.

GRAPHS. See: mechanics (statics); topology (graphs).

GRAVITATION. See: astronomy (cosmology); geodesy (higher); potential theory; relativity.

GROUPS. Cf. Algebra: abstract; algebra: linear; topology.

*Weyl, H. 42 | *Miller, G. A. 43 | *Magnus, W. 103

Finite groups.

Miller, G. A. 6 | Miller, G. A. 103 | Tchounikhin, S. A. 161
Weisner, L. 6 | Derry, D. 103 | Yamada, K. 162
Zappa, G. 43 | Easterfield, T. E. 104 | Miller, G. A. 257
Miller, G. A. 43 | Miller, G. A. 161 | Brahana, H. R. 257
Sinkov, A. 43 | Piccard, S. 161 | Proia, L. 257
Manning, W. A. 44 | Frame, J. S. 161 | Schmidt, O. J. 257
Vandiver, H. S. 68 | Dubuque, P. 161 | Lombardo-Radice, L. 258

Abelian groups.

Cartan, H. 43 | Asano, K. 103 | de Kerékjártó, B. 162
Magnus, W. 44 | Bernstein, B. A. 104 | Miller, G. A. 257
Speiser, A. 70 | Köthe, G. 132 | Van der Lijn, G. 259
Iyanaga, S. 101

GROUPS. (Continued)

Abstract groups.

Hopkins, C. 6 | Baer, R. 104 | Szypanoff, P. 258
Baer, R. 6 | Shaw, J. B. 105 | Morosoff, V. V. 258
Hirsch, K. A. 7 | Tschernikow, S. 162 | Golowin, O. N. 259
Zappa, G. 44 | Specht, W. 162 | Sagastume Berra, A. E. 259
Bernstein, B. A. 104 | Schubarth, E. 162 | Birkhoff, G. 325
Scholz, A. 104 | Lauritzen, S. 257
Ore, O. 104 | Coxeter, H. S. M. 258

Representations, characters.

Weyl, H. 5 | Kawada, Y. 163 | Suetuna, Z. 258
Hoheisel, G. 104 | Flexner, W. W. 163 | Morosoff, V. V. 258
Bochner, S. 110 | Schmidt, O. J. 257 | Abe, M. 259
Suetuna, Z. 161 | Lombardo-Radice, L. 258 | Gelfand, I. 331

Continuous, topological, Lie groups. Cf. Contact transformations.

Zorn, M. 9 | Kawada, Y. 163 | Pontrjagin, L. 259
Cartan, H. 43 | Neumer, W. 163 | Garnier, R. 260
Jacobson, N. 44 | Flexner, W. W. 163 | Schilling, O. F. G. 328
*Pontrjagin, L. 44 | Gantmacher, F. 163 | Iyanaga, S.-Kodaira, K. 330
Paxson, E. W. 58 | Kowalewski, G. 164
Hyers, D. H. 58 | Abe, M. 259 | Gelfand, I. 338
Tschernikow, S. 162

Crystallography and divisions of space. Cf. Elementary geometry (regular figures).

Bieberbach, L. 192

Generalized groups.

Vandiver, H. S. 105 | Birkhoff, G. 148 | Rybakoff, L. 164
Eaton, J. E.-Ore, O. 105 | Kawada, Y.-Eaton, J. E. 164
Eaton, J. E. 105 | Kondô, K. 164 | Krasner, M. 260

HANKEL TRANSFORMS. See: Fourier integrals (Mellin transforms).

HARMONIC ANALYSIS. See: Fourier series; numerical methods (practical harmonic analysis); statistics (time series).

HARMONIC FUNCTIONS AND GENERALIZATIONS. Cf. Potential theory.

General theory.

Szegö, G. 137 | Inoue, M. 230 | Temliakow, A. 311

Subharmonic functions. Cf. Convex functions.

Brelot, M. 114, 121, 122 | Walsh, J. L. 310

Dirichlet problem and other boundary value problems. Cf. Differential equations (boundary value problems).

Green, J. W. 17 | Brelot, M. 114, 121 | Monna, A. F. 238
Hay, G. E. 21 | Nevanlinna, R. 121 | Brelot, M. 238
Hibbert, L. 56 | Monna, A. F. 122 | Jacob, C. 283
Green, J. W.-Lewy, H. 77 | Brelot, M. 122 | Mushelišvili, N. I. 314
Love, A. E. H. 91 | Hibbert, L. 122 | Cimmino, G. 314

Biharmonic functions.

Giulotto, V. 118

Generalizations.

Taussky, O. 15 | Beckenbach, E. F. 312

HEAT CONDUCTION. Cf. Differential equations; diffusion; probability (Markoff chains).

Churchill, R. V. 57 | Barrer, R. M. 120 | Lowan, A. N. 181
Vernotte, P. 57 | Awbery, J. H. 120 | Ornstein, L. S.-Milatz, J. M. W. 315
Lowan, A. N. 76 | Vernotte, P. 179
Carslaw, H. S.-Jaeger, J. C. 77 | Tranter, C. J. 181

HEAVISIDF CALCULUS. See: operational calculus.

HERMITE FORMS. See: algebra: linear (quadratic forms).

HERMITE POLYNOMIALS. See: interpolation; polynomials.

HILBERT SPACES. See: differential geometry (Finsler spaces); functional analysis; measure and integration; topology (topological spaces; applications).

HISTORY.

Ancient and medieval mathematics.

Greek texts 33 | Heidel, W. A. 129 | *Rey, A. 289
Loria, G. 33 | Reidemeister, K. 129 | van der Waerden, B. L. 289
Michel, H. 33 | Gandz, S. 129
Thureau-Dangin, F. 129 | Wygodski, M. 289 | Conte, L. 289

HISTORY. (Continued)

Modern mathematics.

Bompiani, E. 33 | Saltykow, N. 33 | Carruccio, E. 130
Dehn, M.-Hellinger, E. 33 | Nagel, E. 34 | Bortolotti, E. 130
Hofmann, J. E. 33 | Miller, G. A. 43 | Amodeo, F. 165, 260
Pelseneer, J. 33 | Stoyanoff, A. 126 | Saltykow, N. 290
Bortolotti, E. 33 | Lorey, W. 126 | Itard, J. 290
Turnbull, H. W. 129 | Karpinski, L. C. 290

India, Far East, Maya.

Chatley, H. 130 | Dittrich, A. 130 | Fujiwara, M. 289
Fujiwara, M. 130 | Singh, A. N. 289 | Minoda, T. 289

Astronomy and physics.

Rome, A. 33 | Zilsel, E. 129 | Dittrich, A. 130
Namase-Marie 33 | Rosen, E. 129 | Chatley, H. 289

Biography.

Saltykow, N. 33 | Zassenhaus, H. 34 | Hjelmslev, J. 130
Turnbull, H. W. 33 | Rosen, E. 129 | Narayan, L. 290
Schnirelman, L. G. 33 | Turnbull, H. W. 129 | Bompiani, E. 290
Archibald, R. C. 34 | Berzolari, L. 130 | Pearson, K. 345

HYDRODYNAMICS. See: mechanics of continua.

HYPERBOLIC DIFFERENTIAL EQUATIONS. See: differential equations; electricity (waves); functional analysis (existence theorems); geophysics (seismic waves); mechanics of continua; numerical methods (differential equations).

HYPERCOMPLEX SYSTEMS. See: algebra: abstract (lattices); algebra: linear (hypercomplex systems).

HYPERGEOMETRIC FUNCTIONS. See: special functions (hypergeometric functions).

IDEAL THEORY. See: algebra: abstract (lattices); number theory.

INDEX NUMBERS. See: economics (index numbers).

INEQUALITIES. Cf. Isoperimetric problems.

Young, L. C. 7 | Robertson, M. S. 214 | Cartan, H. 297
Scardina, M. 71 | Garten, V. 218, 219 | Gontcharoff, W. 298
Northcott, D. G. 71 | Boas, R. P., Jr. 242 | Perlin, I. E. 298
Gorny, A. 137 | Selberg, H. L. 245 | Kolmogoroff, A. 298
Pitt, H. R. 139 | Cartan, H.-Mandelbrojt, S. 297 | Soboleff, S. 298
Duffin, R. J.-Schaeffer, A. C. 205 | Mandelbrojt, S. 297 | Pizzetti, E. 298

INFINITELY MANY VARIABLES. See: functional analysis(equations).

INSTRUMENTS. See: numerical methods (instruments).

INSURANCE. See: actuarial mathematics.

INTEGRAL AND INTEGRODIFFERENTIAL EQUATIONS. Cf. Functional analysis (existence theorems).

Integral equations.

Trjitzinsky, W. J. 17 | Goldfain, I. 146 | Iglisch, R. 238
Rothe, E. 18 | Nardini, R. 181 | Mushelišvili, N. I. 314
Giraud, G. 56, 145 | Picone, M. 236

Integrodifferential equations.

McLachlan, N. W. 12 | Hebroni, P. 118 | Godefroy, M. 239

Special equations.

Wieghardt, K. 91 | Hadwiger, H. 154 | Rhodes, E. C. 230

INTEGRAL GEOMETRY. See: convex bodies; differential geometry (differential geometry in the large).

INTEGRAL INVARIANTS. See: invariants (differential).

INTEGRAL TRANSFORMS. See: differential equations (applications); Fourier integrals.

INTEGRALS OF FRACTIONAL ORDER. See: differentiation of fractional order.

INTEGRATION, THEORY OF. See: measure and integration.

INTEGRODIFFERENTIAL EQUATIONS. See: integral equations.

INTERPOLATION: GENERAL THEORY. Cf. Fourier series (trigonometric interpolation); functions of complex variables (complex interpolation); numerical methods (differences).

Szegö, G. 14 · Shohat, J. 143 · Losinsky, S. 333
Beretta, L.-Merli, L. 54 · Cassina, U. 143 · Gontcharoff, M. 334
Favard, J. 54 · Erdös, P.-Turán, P. 333 · Kamenetzky, I. M. 334
Webster, M. S. 74 · Erdös, P. 333 · O'Brien, K. E. 334
Jordan, C. 74

Mechanical quadratures.

Shohat, J. A. 72 · Cassina, U. 74, 143 · Losinsky, S. 335

INTUITIONISM. See: axiomatics (intuitionism); philosophy (intuitionism).

INVARIANTS.

Weyl, H. 42

Algebraic invariants.

Weyl, H. 5 · Weitzenböck, R. 157, 166 · Weitzenböck, R. 263, 270
Chanler, J. H. 35 · Dressel, P. L. 249

Differential and integral invariants.

Molenaar, P. G. 35 · Neumer, W. 163 · Barnett, I. A.-Reingold, H. 273
de Rham, G. 119 · Saltykow, N. 236 · Saltykow, N. 313

INVERSION FORMULAS. See: Fourier integrals (inversion formulas).

IRRATIONAL NUMBERS. See: axiomatics (analysis); continued fractions; Diophantine approximations; number theory (algebraic).

IRREDUCIBILITY. See: polynomials (irreducibility).

ISOPERIMETRIC PROBLEMS AND GEOMETRICAL INEQUALITIES. Cf. Calculus of variations (isoperimetric problems); convex bodies.

Bol, G. 81 · Fiala, F. 158 · Favard, J. 264
Neumann, B. H. 158 · Fejes, L. 263 · Hornich, H. 264
Hornich, H. 158 · Szekeres, G. 264 · Nyberg, M. 264
Bol, G. 158 · v. Sz. Nagy, B. 264 · Geppert, H. 264

ITERATION. See: functions of complex variables (iteration).

KINEMATICS. See: differential geometry (kinematical methods); mechanics (kinematics).

KNOTS. See: topology (knots).

LAGUERRE POLYNOMIALS. See: interpolation; polynomials.

LAMÉ FUNCTIONS. See: special functions (Legendre functions).

LAPLACE INTEGRALS AND TRANSFORMS. See: differential equations (applications); Dirichlet series; Fourier integrals (Laplace integrals); operational calculus.

LATTICE POINTS. See: number theory (lattice points).

LATTICE POTENTIALS. See: potential theory (lattice potentials).

LATTICES. See: algebra: abstract (lattices).

LEAST SQUARES. See: errors.

LEBESGUE THEORY. See: functions of real variables; measure and integration.

LEGENDRE FUNCTIONS. See: interpolation; polynomials; special functions (Legendre functions).

LIE GROUPS. See: groups (continuous).

LINE GEOMETRY. See: analytic geometry (lines); differential geometry (differential line geometry).

LINEAR ALGEBRA. See: algebra: abstract; algebra: linear.

LINEAR OPERATORS. See: functional analysis (operators).

LINEAR SPACES. See: functional analysis; measure and integration; topology.

LOGIC. Cf. Axiomatics; philosophy.

Tarski, A. 34 · Fitch, F. B. 131 · Löwenheim, L. 321
Mostowski, A. 34 · Parry, W. T. 131 · Leonard, H. S.-Goodman, N. 321
Teichmüller, O. 34 · Kalmár, L. 132 · Church, A. 321
Nagel, E. 34 · Ogasawara, T. 132 · Gégalkine, I. 322
Woodger, J. H. 131 · Skolem, T. 132 · Birkhoff, G. 325
McKinsey, J. C. C. 131 · Péter, R. 132
Wernick, W. 131 · Bochvar, D. A. 321

LOMMEL FUNCTIONS. See: special functions (Bessel functions).

MAGIC SQUARES. See: number theory (magic squares).

MAPS, THEORY OF. See: differential geometry (special mapping problems).

MARKOFF CHAINS. See: probability (Markoff chains).

MATHIEU FUNCTIONS. See: special functions (Legendre functions).

MATRICES. See: algebra: linear.

MEASURABILITY PROBLEMS. See: sets (measurability problems).

MEASURE AND INTEGRATION. Cf. Calculus; functional analysis; functions of real variables.

Classical Riemann-Stieltjes and Lebesgue theory.

Marcinkiewicz, J.-Salem, R. 207 · Agnew, R. P. 296 · Foradori, E. 304
Erim, K. 208 · Cesari, L. 304 · Aronszajn, N. 305
Jeffery, R. L. 304

Denjoy theory and related topics.

Krzyżański, M. 47 · Denjoy, A. 207, 208 · Jeffery, R. L. 208
Ridder, J. 110 · Tolstoff, G. 208 · Tolstoff, G. 305

Area, lengths. Cf. Calculus of variations (generalized geometrical theory).

Kempisty, S. 8 · Kempisty, S. 207, 209 · Fréchet, M. 305
Radó, T.-Reichelderfer, P. 8 · Pauc, C. 240

Abstract theory of measure, integration and differentiation.

Wecken, F. 12 · Kempisty, S. 207 · Tonelli, L. 303
Oxtoby, J. C.-Ulam, S. M. 18 · Appert, A. 209 · Morse, A. P.-Randolph, J. F. 304
Halperin, I. 45 · van Kampen, E. R. 209 · Carathéodory, C. 304
Löwner, K. 48 · Price, G. B. 239 · Aronszajn, N. 305
Dunford, N.-Pettis, B. J. 57 · Izumi, S. 239 · Izumi, S. 305
Smiley, M. F. 240 · Bochner, S. 239 · Bochner, S. 336
Jessen, B. 110 · Phillips, R. S. 240 · Adams, C. R.-Morse, A. P. 337
Bochner, S. 110 · Pospíšil, B. 241 · Dunford, N.-Pettis, B. J. 338
Aronszajn, N. 111 · Alaoglu, L. 241
Sierpinski, W. 206 · Best, E. 302

MECHANICAL QUADRATURES. See: interpolation (mechanical quadratures); numerical methods (differentiation).

MECHANICS. Cf. Ballistics; mechanics of continua; quantum mechanics; statistical mechanics.

Foundations.

Zaremba, S. 281

Statics.

*Appleby, M. 122

Kinematics.

Johnsen, L. 19

Dynamics. Cf. Astronomy; relativity; symbolic dynamics.

Agostinelli, C. 92, 93 · Castoldi, L. 182 · Bebutoff, M. 281
Lewis, D. C., Jr. 123 · Caldirola, P. 182 · Artemieff, N. 281
MacColl, L. A. 124 · Pendse, C. G. 281 · Lewis, T. 352
Sestini, G. 182

Oscillations.

Heinrich, G. 24 · Klotter, K.-Kotowski, G. 122 · Seitter, H. 123

Special problems. Cf. Potential theory (special potentials).

Vincent, J. J. 19 · Ionesco, D. V. 27, 28 · Arrighi, G. 122

Dimensional analysis.

Capocaccia, A. A. 92

MECHANICS OF CONTINUA. Cf. Acoustics.

*Seth, B. R. 286

Hydrodynamics and aerodynamics. Cf. Astronomy (figures of equilibrium); geophysics; statistical mechanics (turbulence).

Mohr, E. 20
Roy, M. 20
Høiland, E. 20
Müller, W. 20
Sedov, L. I. 89
Seth, B. R. 89
Peretti, G. 90
Hylleraas, E. A. 90
Morris, R. M. 90
Green, A. E. 90
Wieghardt, K. 91
Ertel, H. 184
Jacob, C. 185
Tamada, K. 185
Simmons, N. 185
Sakurai, T. 185
Dasgupta, H. K. 186
Burgers, J. M. 186
Ray, M. 186
Possio, C. 187
Bateman, H. 187
*Chapman, S.-Cowling, T. G. 187
Graustein, W. C. 270
Jacob, C. 283
Milne-Thomson 284
Poncin, H. 284
Tamada, K. 284
Nomura, Y. 284
Young, G. 284
Keulegan, G. H.-Patterson, G. W. 284
Langer, R. E. 285
Bechert, K. 286
Pailloux, H. 286
Robertson, H. P. 286
Anton, L. 286
Thrane, P. 286

Elasticity.

Savin, S. A. 21
Willers, F. A. 21
Hay, G. E. 21
Pleijel, Å. 56
Love, A. E. H. 91
Lennertz, J. 91
Biot, M. A. 91
Morrow, J. 91
Friedrichs, K. O.-Stoker, J. J. 91
Kappus, R. 92
Rock, D. H. 92
Despujols, P. 121
Schuh, J. F. 187
Locatelli, P. 188
Morris, R. M. 188
Frola, E. 188
Arrighi, G. 188
Kappus, R. 188
Weatherburn, C. E. 188
Scholte, J. G. 188
Iguchi, S. 189
Severina, B. 189
Morris, R. M. 189
Howland, R. C. J.-Knight, R. C. 189
Conforto, F. 189
Cornish, R. J. 189
Grioli, G. 189
Dean, W. R. 190
Frenkel, J.-Kontorova, T. 190
Southwell, R. V. 237
Weinstein, A. 237
Pierrottet, E. 287
Ôkubo, H. 287
Cisotti, U. 287
Lekhnitsky, S. 287
Riz, P. 287
Slonimsky, G. L. 287
Abramov, B. M. 288
Ruhadze, A. K. 288
Gorbunov-Possadov, M. I. 288
Gran Olsson, R.-Reissner, E. 288
Karas, K. 288
Frank, B. 288

Wave propagation.

Poncin, H. 92
Vernotte, P. 179
Arrighi, G. 188
Pastori, M. 188
Scholte, J. G. 188
Keulegan, G. H.-Patterson, G. W. 284

Special problems.

Bonder, J. 8
Cattaneo, C. 182
Giraud, G. 185
Einaudi, R. 316

MELLIN TRANSFORMS. See: Fourier integrals (Mellin transforms).

MEROMORPHIC FUNCTIONS. See: functions of complex variables.

METEOROLOGY. See: geophysics.

METRIC GEOMETRY. See: differential geometry; topology.

METRIC SPACES. See: differential geometry; functional analysis; topology.

MINIMAL SURFACES. See: calculus of variations (minimal surfaces); differential geometry (minimal surfaces).

MINKOWSKI GEOMETRY. See: non-Euclidean geometry (Minkowski geometry).

MODULAR FUNCTIONS. See: elliptic functions (automorphic functions); number theory (analytical tools).

MOMENTS, PROBLEM OF. Cf. Statistics (frequency functions).

Boas, R. P., Jr. 13
Friedrichs, K.-Horvay, G. 13
Wald, A. 14
von Mises, R. 22
Boas, R. P., Jr. 52
Feller, W. 52
Lifschetz, M. 229
Chlodovsky, I. 332
Bergman, S.-Martin, W. T. 332

MONOGENIC FUNCTIONS. See: functions of complex variables (quasi-analytic functions).

NETS. See: differential geometry; topology (graphs).

NETWORKS, ELECTRIC. See: electricity (networks).

NOMOGRAPHY. See: numerical methods (nomography).

NON-EUCLIDEAN GEOMETRY.

Mehmke, R. 25
Kruppa, E. 25
Whitrow, G. J. 125
Vahlen, T. 156
Bachmann, F. 261
Jenks, F. P. 261
Blaschke, W.-Terheggen, H. 261

Minkowski geometry and other generalizations. Cf. Convex bodies.

Kubota, T. 81
Kowalewski, G. 164

NORMAL FAMILIES. See: functions of complex variables (normal families).

NUCLEAR PHYSICS. See: quantum mechanics (elementary particles).

NUMBER THEORY. Cf. Diophantine approximations; tables (number-theoretical).

*Uspensky, J. V.-Heaslet, M. A. 38
*Dickson, L. E. 65

Elementary theory of numbers.

Pillai, S. S. 4
Goodstein, R. L. 25
*Wright, H. N. 38
Feldheim, E. 39
Kamber, F. 133
Thébault, V. 134
Vijaraghavan, T. 134
Nakayama, M. 134
Kowalt, A. 134
Sprague, R. 199
Thébault, V. 199
Bush, L. E. 199
Marshall, J. B. 199
Perez Cacho, L. 290
Bang, A. S. 291
Moessner, A. 291

Magic squares.

Travers, J. 39
Fitting, F. 39
Stern, E. 65, 133
Fitting, F. 133
Venkatasubbiah, G. 133
Rosser, B.-Walker, R. J. 133
Norton, H. W. 199
Bose, R. C. 199
Cox, G. M. 199
*van Driel, M.-J. 290
*Candy, A. L. 290

Congruences.

van der Corput, J. G. 39
O'Connor, R. E. 39
van der Corput, J. G. 65
Vandiver, H. S. 200
Davenport, H. 295

Diophantine equations and representation problems.

Ward, M. 4
Gloden, A. 5, 39
Constantinescu, G. G. 65
Gloden, A. 65
DeLury, D. B. 68
Ross, A. E. 68
Moessner, A. 133
Barnett, I. A.-Szász, O. 134
Rédei, L. 134
Pillai, S. S. 135
Tchacaloff, L.-Karanicoloff, C. 200
James, R. D. 200
Bang, A. S. 291
Obláth, R. 291
Johnson, L. L. 291
Pillai, S. S. 291
Bell, E. T. 291
Fogels, E. 291

Geometry of numbers.

*Hancock, H. 67
Bullig, G. 68
Blichfeldt, H. F. 68
Derry, D. 103
Mahler, K. 202
Santaló, L. A. 265
Davenport, H. 295
Mahler, K. 295

Divisibility and factorization problems.

Erdős, P. 4, 39
Beeger, N. G. W. H. 65
Lehmer, D. N. 133
Pillai, S. S. 199
Storchi, E. 290

Power residues and laws of reciprocity.

Davenport, H. 41

Algebraic number theory, number fields.

Hasse, H. 67
Bullig, G. 68
Nagell, T. 68
Blichfeldt, H. F. 68
Vandiver, H. S. 68
Taussky, O.-Todd, J. 134
Bauer, M. 135
MacLane, S.-Schilling, O. F. G. 200
Krasner, M. 260
Fogels, E. 291
Bauer, M. 292
Gelfond, A. 292
Moriya, M. 327
MacLane, S. 328

Arithmetic theory of forms.

Hancock, H. 67
Townes, S. B. 134
Pall, G. 292

Fermat's last theorem.

Vandiver, H. S. 4
Rosser, B. 5
Beeger, N. G. W. H. 65
Vandiver, H. S. 68, 200
Krasner, M. 291
Rosser, B. 292

Additive theory of numbers.

Scherk, P. 5
Brauer, A. 40
Atkinson, F. V. 40
Lehmer, D. H. 69
Pillai, S. S. 135
Rademacher, H. 136
Jarnik, V. 136
Gupta, H. 201
Dyer-Bennet, J. 201
Niven, I. 201
Shah, S. M. 201
Tricomi, F. 201
Lévy, P. 201
Khintchine, A. 201
Schnirelmann, L. 202
Pall, G. 292
Raikov, D. A. 296

Waring problem.

Davenport, H. 5
Davenport, H.-Erdős, P. 5
Dickson, L. E. 5
Davenport, H. 42
Erdős, P. 42
DeLury, D. B. 68
Fuchs, W. H. J.-Wright, E. M. 69
van der Corput, J. G.-Pisot, C. 69
Sambasiva Rao, K. 135
Kac, M. 136

Number-theoretical functions.

Erdős, P.-Wintner, A. 40
Erdős, P. 41
van der Corput, J. G. 41, 66
Lehmer, D. H. 69
Rankin, R. A. 69
Shah, S. M. 201
Kac, M.-van Kampen, E. R.-Wintner, A. 203
Rankin, R. A. 203
Perez Cacho, L. 290
Fogels, E. 293

NUMBER THEORY. (Continued)

Theory of primes: distribution of primes. Cf. Dirichlet series (zeta functions).

Broderick, T. S. 41 | Turán, P. 135 | Pillai, S. S. 293
Kienast, A. 41 | *Schnirelman, L. G. 292 | Vinogradow, I. 293
Beeger, N. G. W. H. 65 | Broderick, T. S. 292 | Fogels, E. 293
Scott, S. A. 135 | Erdös, P. 292 | Brun, V. 293
Pillai, S. S. 135 | Rankin, R. A. 292 | Wintner, A. 294

Analytic theory of numbers in number fields and fields of functions.

Erdös, P. 52, 139 | Miyatake, O. 214
Schoeneberg, B. 203 | Petersson, H. 294

Lattice points.

Jarník, V. 294

Analytical tools. Cf. Diophantine approximations (equidistribution problems); Dirichlet series; elliptic functions.

Erdös, P. 52 | Gut, M. 136 | Vinogradow, I. 293
Rankin, R. A. 69 | Erdös, P. 139 | Zuckerman, H. S. 294
Speiser, A. 70

NUMERICAL AND GRAPHICAL METHODS. Cf. Tables.

*Jordan, C. 74

Equations. Cf. Actuarial mathematics (mathematics of finance).

Hitchcock, F. L. 31 | Casale, F. 126 | Gorbounov-Possadov, M. I. 253
Kneser, H. 36 | Rocard, Y. 252 | Gorodsky, M. 254
Carafa, M. 73 | Johansen, P. 252 | Ermolowa, O. W. 255
Lorey, W. 126 | Frank, M. L. 253 | Ostrowski, A. 323

Systems of linear equations, determinants.

Potron 97 | Schumann, T. E. W. 253

Differences, interpolation and graduation. Cf. Differences; errors; interpolation.

Lowan, A. N. 32 | Lowan, A. N.- | Camp, K. 125
Joseph, J. A. 32 | Lederman, J. 125 | Stock, J. S. 126
| | Abramowitz, M. 252

Special constants.

Ballantine, J. P. 126 | Stoyanoff, A. 126 | Uhler, H. S. 252

Computation of series. Cf. Differences (summation formulas); series.

Witt, G. 34 | Lehmann, A. 126 | Schilling, B. 217

Differentiation and integration.

Van den Akker, J. A. 31 | Blackett, P. M. S.- | Lennard-Jones, J. E.-
Hulme, H. R. 93 | Williams, F. C. 128 | Wilkes, M. V.- Bratt, J. B. 128
Lehmann, A. 126 | Williams, F. C. 128 | Killian, K. 252
Bickley, W. G. 126

Differential and integral equations.

Witt, G. 10 | Turton, F. J. 126 | Picone, M. 236
Gyllenberg, W. 32 | Crout, P. D. 127 | Weinel, E. 252
Wieghardt, K. 91 | Rosseland, S. 127 | Myers, D. M. 252
Seitter, H. 123

Practical harmonic analysis. Cf. Statistics (time series).

Beevers, C. A. 31 | Brown, S. L. 127 | Maxwell, L. R. 253
Pipes, L. A. 127 | Starkey, D. M. 152 | Espley, D. C. 253
Debye, P. 127

Instruments.

Van den Akker, J. A. 31 | Blackett, P. M. S.- | Fourcade, H. G. 128
Beevers, C. A. 31 | Williams, F. C. 128 | Myers, D. M. 252
Harkink, F. 127 | Williams, F. C. 128 | Killian, K. 252
Jelstrup, G. 127 | Lennard-Jones, J. E.- | Maxwell, L. R. 253
Rosseland, S. 127 | Wilkes, M. V.- | Schumann, T. E. W. 253
Brown, S. L. 127 | Bratt, J. B. 128

Nomography.

Richter, W. 32 | Mandzuk, A. I. 254 | Ermolowa, O. W. 255
Mittelstaedt 165 | Gorodsky, M. 254 | Denisuk, U. N. 255
Grammel, R. 253 | Pentkowsky, M. W. 254 | Sokoloff, B. D. 256
Frank, M. L. 253 | Moldawer, A. I. 254 | Ermolowa, O. W. 256
Gorbounov-Possadov, M. I. 253 | Bütner, H. A. 255 | Moldawer, A. I. 256

OPERATIONAL CALCULUS (HEAVISIDE). Cf. Differential equations (applications of integral transforms).

McLachlan, N. W. 12 | Fujiwara, M. 180 | Gross, G. L. 181
*McLachlan, N. W. 70 | Bourgin, D. G.- | Droste, H. W. 234
*Warren, A. G. 108 | Duffin, R. 180 | Miller, F. H. 234
Wagner, K. W. 179 | Jaeger, J. C. 180

OPTICS.

Pylarinos, O. 270 | Ignatovskij, W. S. 350

Geometrical optics. Cf. Differential geometry (differential line geometry).

Herzberger, M. 24, 349

ORBITS. See: astronomy (orbits).

ORTHOGONAL FUNCTIONS AND EXPANSIONS. See: approximation (orthogonal functions); Fourier integrals; Fourier series; polynomials (polynomial approximations); special functions.

OSCILLATION AND COMPARISON THEOREMS. See: differential equations (ordinary linear).

OSCILLATIONS. See: differential equations; electricity; mechanics; mechanics of continua; numerical methods (differential equations; practical harmonic analysis).

PARABOLIC DIFFERENTIAL EQUATIONS. See: differential equations; diffusion; functional analysis (existence theorems); heat conduction; numerical methods (differential equations).

PARATINGENT. See: differential geometry (set-theoretical methods); functions of real variables (differentiation).

PARTITIONS. See: combinatorial analysis; number theory (elementary; additive; number-theoretical functions).

PERTURBATIONS. See: astronomy (perturbations); differential equations.

PFAFF PROBLEM. See: differential equations (total equations).

PHILOSOPHY OF MATHEMATICS AND PHYSICS. Cf. Axiomatics; logic.

Tarski, A. 34 | Locher-Ernst, L. 34 | Woodger, J. H. 131
Nagel, E. 34 | von Mises, R. 61 | Lietzmann, W. 131
Lenzen, V. F. 34 | *Gonseth, F. 131 | Blumenthal, L. M. 322
Mimura, Y.- | Aida, G. 131 | Hjelmslev, J. 322
Hosokawa, T. 34 | Dehn, M. 131 | Metcalf, W. V. 322

Intuitionism.

Brouwer, L. E. J. 46

PICARD THEOREM. See: functions of complex variables (Picard theorem).

PLATEAU PROBLEM. See: calculus of variations (minimal surfaces).

POINT SETS. See: convex bodies; differential geometry (set-theoretical methods); functional analysis; functions of real variables (differentiation); measure and integration; potential theory (capacity constants); sets; topology.

POLITICAL ARITHMETIC. See: actuarial mathematics (mathematics of finance).

POLYHEDRA. See: elementary geometry; topology.

POLYNOMIALS. Cf. Algebra: equations; Fourier series (trigonometric polynomials); interpolation.

*Szegö, G. 14

Zeros. Cf. Functions of complex variables (zeros); numerical methods (equations).

Sispanov, S. 1 | Obrechkoff, N. 49 | Komischke, A. 193
Erdös, P.- | Specht, W. 193 | Caracciolo, M. S. 323
Grünwald, T. 1 | Anghelutza, T. 193 | Anghelutza, T. 323
Levi, H. 9 | Obreschkoff, N. 193 | Ostrowski, A. 323
Dieudonné, J. 37

Irreducibility, representation problems.

Jacobson, N. 35 | Skolem, T. 97, 102 | Ore, O. 194
Rosenbaum, B. 36 | Tatuzawa, T. 194 | Carlitz, L. 324
Nagell, T. 68 | Vessiot, E. 194

Extremal problems. Cf. Functions of complex variables (extremal problems); inequalities.

Turan, P. 37 | Gröbner, W. 74 | Erdös, P. 323

Special polynomials. Cf. Special functions.

Schoblik, F. 15 | Erdélyi, A. 116, 117 | Shohat, J. 143
Sheffer, I. M. 15 | Szegö, G. 137 | Dieulefait, C. 143
Jackson, D. 53 | Mohan, B. 140 | Palama, G. 144
Bailey, W. N. 53 | Madhava Rao, B. S. 142 | Amerio, L. 180
Bock, P. 55 | Thiruvenkata Char, V. R. 142 | Varma, R. S. 231
Gröbner, W. 74 | Iyengar, K. S. K. 142, 143 | Palamà, G. 231
Pasternack, S. 116 | Sastry, B. S. 143 | Feldheim, E. 231, 232
Toscano, L. 116 | Dickinson, D. R. 143 | Toscano, L. 232
Howell, W. T. 116 | | Shabde, N. G. 232

POLYNOMINALS. (Continued)

Polynomial approximations and expansions. Cf. Approximation; functions of complex variables (polynomial expansions; complex interpolation).

Heuser, P. 14
Reijnierse, J. M. 53
Jackson, D. 53
Beretta, L.-Merli, L. 54
Favard, J. 54
Giulotto, V. 118
Crout, P. D. 127
Hardy, G. H. 141
Hille, E. 141, 142
Shohat, J. 143
Menchoff, D. 230
Peebles, G. 230
Feldheim, E. 232
Walsh, J. L.-Sewell, W. E. 309
Sewell, W. E. 309
Walsh, J. L. 309
Delange, H. 310
Erdős, P.-Turán, P. 333

Several variables.

Oldenburger, R. 324

POTENTIAL THEORY. Cf. Differential equations; harmonic functions.

General theory.

Brelot, M. 121

Capacity constants and related topics.

Calugaréano, G. 109
Nevanlinna, R. 121
Beurling, A. 226
Monna, A. F. 238

Special potentials. Cf. Electricity (potentials); geodesy (higher geodesy).

Rice, S. O. 179
Rosenblatt, A. 182
Opatowski, I. 300

Lattice potentials. Cf. Quantum mechanics (solids).

Molière, G. 24

POWER RESIDUES. See: number theory.

POWER SERIES. See: functions of complex variables; series (power series).

PRIME NUMBERS. See: number theory.

PROBABILITY THEORY. Cf. Actuarial mathematics; biological problems; statistical mechanics; statistics.

Hartley, H. O. 22
de Finetti, B. 148
*Jeffreys, H. 151

Foundations. Cf. Axiomatics (probability).

Kac, M.-van Kampen, E. R.-Wintner, A. 21
*von Mises, R. 61
McKinsey, J. C. C. 61
Greville, T. N. E. 61
Kamke, E. 148
Church, A. 149
Largulier, E. H. 149
Koopman, B. O. 245
Onicescu, O. 245
Weil, A. 340

Elementary theory. Cf. Combinatorial analysis.

Dantzig, G. B. 21
Fréchet, M. 62
Geiringer, H. 62
Fréchet, M. 245
Stevens, W. L. 245
Kanellos, S. 340
Jordan, C. 340
Dieulefait, C. E. 340
Ottaviani, G. 340
Fisher, R. A. 347

Distribution functions. Cf. Fourier integrals (Fourier-Stieltjes integrals); moments.

Wald, A. 14
Marcinkiewicz, J. 21
Kac, M.-van Kampen, E. R. 21
Erdős, P.-Wintner, A. 40
Kac, M. 62
Lévy, P. 62, 149
Feldheim, E. 149
Feller, W. 149
Doeblin, W. 149
Selberg, H. L. 245
Dieulefait, C. 245
Geppert, M. P. 246
Smirnoff, N. 246
Loève, M. 246
Geppert, M.-P. 340
Gnedenko, B. V. 341, 342
Smirnoff, N. 345

Limit theorems.

Greenwood, J. A.-Greville, T. N. E. 21
Marcinkiewicz, J. 21
Lévy, P. 62
Halmos, P. R. 62
van Kampen, E. R.-Wintner, A. 63
Haviland, E. K. 63
Dubourdieu, M. J. 73
Doeblin, W. 149
Fukamiya, M. 149
Derksen, J. B. D. 152
van Kampen, E. R. 209
Loève, M. 246
Sternberg, W. 246
Feldheim, E. 246
Rodgers, E. 246
Kawata, T. 340
Bernstein, S. N. 340
Madow, W. G. 341
Gnedenko, B. V. 341, 342
Gnedenko, B. V.-Groshev, A. V. 342
Gnedenko, B. V. 342
Doob, J. L. 344

Markoff chains and stochastic processes. Cf. Ergodic theory.

Lévy, P. 22
Feller, W. 22
Dunford, N.-Pettis, B. J. 57
Kakutani, S. 59
Yosida, K.-Kakutani, S. 62
van Kampen, E. R.-Wintner, A. 63
Jones, R. C. 118
Ambrose, W. 149
Lévy, P. 150
Cramér, H. 150
Kakutani, S. 150
Silberstein, L. 150
Ruark, A. 150
Dedebant, G.-Moyal, J.-Wehrlé, P. 246
Onicescu, O.-Mihoc, G. 246, 247
Doeblin, W. 247
Potoček, J. 247
Birkhoff, G. 325
Dunford, N.-Pettis, B. J. 338
Franckx, E. 342
Onicescu, O.-Mihoc, G. 342
Yosida, K. 343
Kakutani, S. 343
Doeblin, W. 343
Doob, J. L. 343, 344
Khintchine, A. 344
Kac, M. 344
Feller, W. 344
Volberg, O. 345
Bernstein, S. 345

Random functions in analysis.

Kampé de Fériet, J. 20
Hartman, P. 53
Fukamiya, M. 149
Tricomi, F. 201
Lévy, P. 201
van Kampen, E. R. 209
Izumi, S.-Kawata, T. 217
Kac, M. 344

PROJECTIVE DIFFERENTIAL GEOMETRY. See: differential geometry (conformal).

PROJECTIVE GEOMETRY. See: analytic geometry; elementary geometry.

PROOFS, THEORY OF. See: axiomatics (theory of proofs).

QUADRATURE FORMULAS. See: interpolation (mechanical quadratures); numerical methods (differentiation).

QUADRICS. See: elementary geometry (conic sections).

QUANTUM MECHANICS.

General theory and relativistic quantum mechanics.

Friedrichs, K.-Horvay, G. 13
Taussky, O. 15
Hoyle, F. 94
Dirac, P. A. M. 94
Taub, A. H. 95
Fokker, A. D. 95
Badarau, G. 95
Madhava Rao, B. S. 142
Dirac, P. A. M. 146
Kemble, E. C. 159
*London, F.-Bauer, E. 190
*Fahmy, M. 190
Yamamoto, H. 190
Fierz, M.-Pauli, W. 190
Schönberg, M. 191
Roubaud-Valette, J. 191
Matossi, F. 191
Petiau, G. 191
Haenzel, G. 262
Schrödinger, E. 277
Watson, W. H. 278
Podolsky, B.-Branson, H. 278
Jauch, J. M.-Hill, E. L. 278
Yvon, J. 278
Belinfante, F. J. 279
Cászár, E. 351
Planck, M. 351
Ginsberg, V. L. 351

Elementary particles, nuclear physics.

Petiau, G. 24
Dirac, P. A. M. 94
Taub, A. H. 95
Kemmer, N. 95
Haseltine, W. R. 95
Peierls, R. 96
Lees, A. 183
Petiau, G. 191
de Wet, J. S. 279
Pauli, W.-Belinfante, F. J. 279
Belinfante, F. J. 280
Landé, A. 352
Fierz, M. 352
Taub, A. H. 352
Lewis, T. 352

Solids.

Fues, E. 93
Houston, W. V. 191
Bieberbach, L. 192
Chang, T. S. 276
Takagi, M. 277
Born, M. 277
Misra, R. D. 277

QUASI-ANALYTIC FUNCTIONS. See: functions of complex variables (quasi-analytic functions).

QUASI-GROUPS. See: groups (generalized groups).

QUATERNIONS. See: algebra: abstract; algebra: linear (hypercomplex systems); functions of complex variables (functions of quaternion variables); vector calculus.

RANDOM FUNCTIONS. See: probability; statistics.

REGULAR FIGURES. See: elementary geometry (regular figures).

RELATIVITY. Cf. Astronomy (cosmology); quantum mechanics (general theory).

Moghe, D. N. 20
McVittie, G. C. 20
Vescan, T. T. 60
Einstein, A. 61
Lichnerowicz, A. 61
van Dantzig, D. 96
MacColl, L. A. 124
Lämmel, R. 124
Schiff, L. I. 124
Chou, P. Y. 125
Moghe, D. N. 125
Pastori, M. 182
Caldirola, P. 182
Fock, V. A. 183
Rosen, N. 183
Lees, A. 183
March, A.-Foradori, E. 184
Sulaiman, S. 184
Moghe, D. N. 184
Yamamoto, H. 190
Fierz, M.-Pauli, W. 190
Schönberg, M. 191
Roubaud-Valette, J. 191
Pastori, M. 191, 274
Lichnerowicz, A. 282
Walker, A. G. 283
Einstein, A.-Infeld, L. 283
Jehle, H. 283
March, A. 352

REPRESENTATION THEORY. See: algebra: abstract; algebra: linear; groups.

RICCI CALCULUS. See: differential geometry; vector calculus (tensors).

RIEMANN SURFACES. See: functions of complex variables (Riemann surfaces); topology (covering surfaces).

RIEMANNIAN GEOMETRY. See: differential geometry.

RINGS. See: algebra: abstract (lattices); functional analysis (operators).

ROTATING FLUID BODIES. See: astronomy (figures of equilibrium).

SAMPLING THEORY. See: statistics (sampling theory).

SCHLICHT FUNCTIONS. See: functions of complex variables.

SCHWARZ LEMMA. See: functions of complex variables.

SEISMOLOGY. See: geophysics.

SELF-RECIPROCAL FUNCTIONS. See: Fourier integrals (self-reciprocal functions).

SEMI-GROUPS. See: groups (generalized groups).

SERIES. Cf. Almost periodic functions; approximation; continued fractions; Dirichlet series; Fourier series; interpolation; numerical methods (computation of series); polynomials (polynomial approximations); probability theory (random functions in analysis); Tauberian theorems.

*Knopp, K. 46

Special sequences and series. Cf. Number theory (number-theoretical functions).

Vandiver, H. S. 4
Epstein, L. F. 10
Witt, G. 10
Joseph, J. A. 32
Usensky, J. V.- Heaslet, M. A. 38
Beeger, N. G. W. H. 65
Vandiver, H. S. 68, 200
Johnston, L. S. 216
Orts, J. 216
Selberg, S. 216
Rajagopal, C. T. 216
Erdős, P.-Turán, P. 217

Power and factorial series. Cf. Functions of complex variables (power series).

Eagle, A. 1
Leighton, W.- Scott, W. T. 7
Denjoy, A. 9
Sidon, S. 213
Amerio, L. 218
Obrechkoff, N. 230
Scott, W. T.- Wall, H. S. 296

Convergence and summability.

Chand, H. 10
Agnew, R. P. 10
Kuttner, B. 50
Agnew, R. P. 50
Rella, T. 98
Denjoy, A. 207, 208
Rajagopal, C. T. 216
Bochner, S. 217
Izumi, S.- Kawata, T. 217
Barone, H. G. 218
Meyer-König, W. 218
Ríos, S. 218
Cesco, R. P. 218
Amerio, L. 218
Hyslop, J. M. 218
Garten, V. 218, 219
Karamata, J. 219
Garabedian, H. L. 219
Obrechkoff, N. 230
Agnew, R. P. 296
Hadwiger, H. 333

Transformation of series.

Garabedian, H. L. 11
Witt, G. 32
Bradshaw, J. W. 50
Barone, H. G. 218
Cesco, R. P. 218
Garten, V. 218
Wintner, A. 228

Multiple series.

Fort, T. 50
Knopp, K. 51
Meyer-König, W. 219
Hill, J. D. 219
Kloosterman, H. D. 219

SETS, THEORY OF. Cf. Functional analysis; functions of real variables; measure and integration; topology.

*Kamke, E. 46
*Carathéodory, C. 205

Abstract theory. Cf. Algebra: abstract (lattices).

Stopher, E. C., Jr. 45
Sierpinski, W. 206
Shmushkovitch, V. 206
Sierpinski, W. 206

Point sets. Cf. Differential geometry (set-theoretical methods); potential theory (capacity constants).

Dienes, Z. P. 8
Blumenthal, L. M. 35
Stopher, E. C., Jr. 45
Maximoff, I. 109
Gutiérrez Novoa, L. 109
Denjoy, A. 109
Maximoff, I. 301
Inagaki, T. 301
Kunugui, K. 301, 302
Novikoff, P. C. 302
Liapounoff, A. 302
Kondô, M. 302
Best, E. 302

Covering theorems.

Kershner, R. 8
Kempisty, S. 207

Measurability problems.

Torrance, E. M. 303

Transfinite numbers and problem of continuum.

Sierpinski, W. 206
Maximoff, I. 206

SOLIDS. See: potential theory (lattice potentials); quantum mechanics (solids).

SPECIAL FUNCTIONS. Cf. Polynomials (special); tables (special functions).

Szegő, G. 14
Jordan, C. 74

Integral-logarithm and analogous functions.

Lowan, A. N. 32

Gamma function and generalizations.

Meissner, W. 31
Bock, P. 55
Kibble, W. F. 233

Bessel and cylindric functions.

Bonder, J. 8
Bock, P. 53
Howell, W. T. 116
Erdélyi, A. 116
Varma, R. S. 117
Meijer, C. S. 118
Jones, R. C. 118
Thiruvenkata Char, V. R. 142
Feldheim, E. 232
Shabde, N. G. 232
Kibble, W. F. 233
Bock, P. 233
Meijer, C. S. 233
Giulotto, V. 233

SPECIAL FUNCTIONS. (Continued)

Legendre functions, spherical harmonics, Lamé functions and related topics.

Bailey, W. N. 53
Bock, P. 55
Meijer, C. S. 116
Erdélyi, A. 116
Klotter, K.- Kotowski, G. 122
Kawada, Y. 163
Bailey, W. N. 232
Shabde, N. G. 232
Dinghas, A. 265

Hypergeometric functions.

Witt, G. 10
Horn, J. 17
Smith, F. C. 55
Erdélyi, A. 55
Bock, P. 55
von Koppenfels, W. 111
Erdélyi, A. 117
Belardinelli, G. 117
MacRobert, T. M. 117
Chaundy, T. W. 119
Simonart, F. 233
Smith, F. C. 234
Rice, S. O. 234

Functions defined by differential and functional equations. See: differences (difference equations); functional equations.

Bock, P. 53
Birindelli, C. 117
Howell, W. T. 120
Erdélyi, A. 231
Lagrange, R. 238

SPHERES AND CIRCLES, GEOMETRY OF. See: analytic geometry (lines); differential geometry (Laguerre geometry)

SPHERICAL HARMONICS. See: special functions (Legendre functions).

SPINORS. See: quantum mechanics; vector calculus.

STABILITY OF SOLUTIONS OF DIFFERENTIAL EQUATIONS. See: differential equations (ordinary).

STATICS. See: mechanics (statics).

STATISTICAL MECHANICS. Cf. Diffusion; ergodic theory.

van Dantzig, D. 96
Kemble, E. C. 158, 159
*Chapman, S.- Cowling, T. G. 187
De Donder, T. 192
Fowler, R. H.- Guggenheim, E. A. 192
Husimi, K. 224
Blokhintzev, D. I. 276
Sakai, T. 276
Hilmy, H. 339
Hartman, P.- Wintner, A. 339

Turbulence. Cf. Mechanics of continua (hydrodynamics).

Kampé de Fériet, J. 20
Burgers, J. M. 186

STATISTICS. Cf. Economics (index numbers); probability; tables (statistical tables).

*Treloar, A. E. 63
*Rider, P. R. 63
*Jeffreys, H. 151
*Croxton, F. E.- Cowden, D. J. 151
*Aitken, A. C. 247

Generalities.

Hartley, H. O. 22
Kamke, E. 148
Eisenhart, C. 152
Gumbel, E. J. 152
Pearson, K. 345
Dodd, E. L. 345
Dwyer, P. S. 345

Frequency functions, moments, graduation. Cf. Errors.

von Mises, R. 22
Lukomski, J. 22
Ottestad, P. 22
Dieulefait, C. 143
Derksen, J. B. D. 152
David, F. N. 153
Smirnoff, N. 246
Evans, W. D. 247
Gumbel, E. J. 247
Dressel, P. L. 249
Smirnoff, N. 345
Aitken, A. C. 346
Hsu, C. T.- Lawley, D. N. 346
Craig, C. C. 346
Haldane, J. B. S. 346

Correlation and regression theory.

Girshick, M. A. 22
Rietz, H. L. 23
Yates, F. 23
Delaporte, P. 63
Pitman, E. J. G. 63
*Tschuprow, A. A. 151
Masuyama, M. 151
Derksen, J. B. D. 152
Starkey, D. M. 152
Geary, R. C. 248
Bartlett, M. S. 248
Hoel, P. G. 248
Fisher, R. A. 248
Hsu, P. L. 248
Tintner, G. 250
Schumann, T. E. W. 253
Madow, W. G. 341
Mitropolsky, A. 345

Sampling theory, statistical tests and related topics.

Girshick, M. A. 22
Kendall, M. G.- Smith, B. B. 23
Rietz, H. L. 23
Stock, J. S.- Frankel, L. R. 23
Yates, F. 23
Delaporte, P. 63
Pitman, E. J. G. 63
Morgan, W. A. 64
Bishop, D. J. 64
Wilks, S. S.- Daly, J. F. 64
Wald, A. 152
Kullback, S. 152
Yates, F. 153
Fisher, R. A. 153
Lengyel, B. A. 153
Welch, B. L. 153
David, F. N. 153
Welch, B. L. 154
McCarthy, M. D. 154
Stevens, W. L. 245
Fisher, R. A. 248
Wald, A. 248
Dressel, P. L. 249
Cochran, W. G. 249
van der Waerden, B. L. 249
Olshevsky, L. 249
Koshal, R. S. 249
von Schelling, H. 249
Haldane, J. B. S. 346
Przyborowski, J.- Wilenski, H. 346
Hartley, H. O. 346
Greenhood, E. R., Jr. 346
Berkson, J. 347
Camp, B. H. 347
Bartlett, M. S. 347
Kendall, M. G. 347
Daly, J. F. 347
Fisher, R. A. 347
Jeffreys, H. 347
Kullback, S.- Frankel, A. 347
Dantzig, G. B. 348
Wald, A.- Wolfowitz, J. 348
Mauchly, J. W. 348
Friedman, M. 348

STATISTICS. (Continued)

Special distributions.

Lukomski, J. 22 | Hsu, P. L. 248 | Haldane, J. B. S. 346
Kendall, M. G.-Smith, B. B. 23 | Madow, W. G. 248 | Johnson, N. L.-Welch, B. L. 346
Jeffreys, H. 64 | Cochran, W. G. 249 | Greenhood, E. R., Jr. 346
Newman, D. 153 | Madow, W. G. 341 | Berkson, J. 347
Laderman, J. 153 | Aitken, A. C. 346 | Camp, B. H. 347
Johnson, N. L.-Welch, B. L. 153 | Hsu, C. T.-Lawley, D. N. 346 | Dantzig, G. B. 348
Fisher, R. A. 248 | Baker, G. A. 346

Random experiments and related topics. Cf. Combinatorial analysis.

Pearson, E. S. 23 | Norton, H. W. 199 | Friedman, M. 348
Bishop, M. C. 154 | Bose, R. C. 199 | Fisher, R. A. 348
Jeffreys, H. 154 | Cox, G. M. 199 | Cornish, E. A. 348
McCarthy, M. D. 154 | Przyborowski, J.-Wilenski, H. 346

Biometrics, demography. Cf. Actuarial mathematics (analysis of mortality); biological problems.

Hadwiger, H. 154 | Haldane, J. B. S. 250 | Glivenko, V. I. 348
Kriehl, L. 154 | Rhodes, E. C. 250 | Richter, H. 349
Preinreich 154, 155 | Feller, W. 250 | Hadwiger, H.-Ruchti, W. 349
Bartlett, M. S. 248 | Backman, G. 251

Time series. Cf. Numerical methods (practical harmonic analysis).

Dodd, E. L. 23 | Koopmans, T. 155 | *Tintner, G. 250
Starkey, D. M. 152 | von Schelling, H. 249 | Hafstad, L. R. 349

Applications. Cf. Actuarial mathematics; astronomy (cosmology); biological problems; economics.

Preinreich, G. A. D. 155 | Boehm, C. 155 | Ackermann, W.-G. 250

STELLAR STATISTICS. See: astronomy (cosmology).

STELLAR STRUCTURE. See: astronomy.

STOCHASTIC PROCESSES. See: probability (Markoff chains).

SUBHARMONIC FUNCTIONS. See: harmonic functions (subharmonic functions); potential theory.

SUMMABILITY. See: Fourier integrals (summability); Fourier series (convergence); series (convergence); Tauberian theorems.

SUMMATION FORMULAS. See: differences (summation formulas); numerical methods; series.

SYMBOLIC DYNAMICS

Oldenburger, R. 59 | Morse, M.-Hedlund, G. A. 123

SYMBOLIC NOTATIONS. See: logic.

SYMMETRIC FUNCTIONS. See: algebra: equations (symmetric functions).

SYNTHETIC GEOMETRY. See: elementary geometry (projective geometry).

TABLES.

Number-theoretical tables.

Beeger, N. G. W. H. 65 | Lehmer, D. N. 133 | Gupta, H. 201

Logarithmic and trigonometric tables.

*Voellmy, E. 125

Special functions.

Meissner, W. 31 | Moon, P. 125 | Lowan, A. N.-Blanch, G. 252

Statistical tables.

Newman, D. 153

TAUBERIAN THEOREMS.

Karamata, J. 11 | Knopp, K. 51 | Meyer-König 218, 219
Meyer-König, W. 11, 51 | Pleijel, Å. 56, 121 | Kloosterman, H. D. 219
Minakshi Sundaram, S. 51 | Hartman, P. 140 | Avakumović, V. G. 228

TENSORS. See: differential geometry; vector calculus.

TESTS, STATISTICAL. See: statistics (sampling theory).

TETRAHEDRA, GEOMETRY OF. See: elementary geometry (triangles).

THERMODYNAMICS.

van Dantz'g, D. 96 | *Fowler, R. H.-Guggenheim, E. A. 192 | Husimi, K. 224
Kemble, E. C. 158 | Fowler, R. H.-Guggenheim, E. A. 192 | Lowan, A. N.-Blanch, G. 252
De Donder, T. 192

THETA FUNCTIONS. See: elliptic functions (theta functions).

THREE BODY PROBLEM. See: astronomy (three body problem).

TIDES. See: geophysics (tides).

TIME SERIES. See: statistics (time series).

TOPOLOGY. Cf. Continuous geometry; functional analysis; groups (continuous); sets.

Combinatorial topology, complexes, simplicial approximation. Cf. Elementary geometry (elementary topology).

Tucker, A. W. 105 | Markoff, A. 219 | Pontrjagin, L. 259
Reidemeister, K. 105 | Whitney, H. 220 | Lebesgue, H. 316
Flexner, W. W. 106 | Friedgé, H. 220 | Wylie, S. 317
Komatu, A.-Sakata, R. 106 | Eilenberg, S. 222 | Sumner, D. B. 317

Knots.

Friedgé, H. 220

Graphs, four-color problem and related topics. Cf. Elementary geometry (elementary topology).

Vázsonyi, E. 105 | Franklin, P. 316 | Winn, C. E. 316

Covering surfaces. Cf. Functions of complex variables (Riemann surfaces).

George, E. 29

Topology of point sets, curves and continua.

George, E. 29 | Riesz, F. 106 | Hall, D. W. 221
Smith, P. A. 30 | Moore, R. L. 107 | Youngs, J. W. T. 221
Puckett, W. T., Jr. 31 | Choquet, G. 220 | Miller, E. W. 221
Kelley, J. L. 31 | Swingle, P. M. 220 | Parhomenko, A. 221
Whyburn, G. T. 31 | Milgram, A. N. 220 | Fox, R. H. 222
Wilder, R. L. 45 | Adkisson, V. W.-MacLane, S. 221 | Charpentier, M. 318
Pitcher, E. 106 | Polak, A. I. 318

Transformations of sets.

Smith, P. A. 30 | Abe, M. 106 | Radó, T.-Reichelderfer, P. 318
Whyburn, G. T. 30 | Cooper, R. 107 | Dushnik, B.-Miller, E. W. 318
Wallace, A. D. 30 | Hall, D. W. 107 | Eilenberg, S. 319
Puckett, W. T., Jr. 31 | Pitcher, E. 107 | Whyburn, G. T. 319
Whyburn, G. T. 45 | Wallace, A. D. 222 | Hall, D. W.-Whyburn, G. T. 319
Ayres, W. L. 45 | Puckett, W. T., Jr. 222, 223 | Roberts, J. H. 319
Komatu, A.-Sakata, R. 106 | Vance, E. P. 223
Kodaira, K. 106 | Harrold, O. G., Jr. 223

Manifolds.

Brouwer, L. E. J. 46 | Freudenthal, H. 106 | Elsholz, L. 317
Pietsch, H. 46 | Sumner, D. B. 317 | Cairns, S. S. 317

Topological spaces, theory of dimension.

Dieudonné, J. 30 | Whitney, H. 220 | Vickery, C. W. 317
Jones, F. B. 45 | Dieudonné, J. 220 | Bebutoff, M.-Schneider, V. 317
Yamauti, S. 107 | Novák, J. 221 | Fantappiè, L. 317
Vedenissoff, N. 107 | Hall, D. W. 221 | Katětov, M. 317
Cartan, H.-Dieudonné, J. 107 | Youngs, J. W. T. 221 | Stebakov, S. 318
Dieudonné, J. 108 | Parhomenko, A. 221 | Alexandroff, P. 318
Rothe, E. 108 | Fox, R. H. 222 | Hyers, D. H. 318
Taylor, A. E. 108 | Kondô, M. 302
Best, E. 302

Fixed points and sets.

Kelly, J. L. 29, 222 | Hirsch, G. 317 | Eilenberg, S. 319

Applications to analysis. Cf. Calculus of variations (topological problems); functional analysis (existence theorems).

Zorn, M. 9 | Brödel, W. 211 | Elsholz, L. 319, 320
Rothe, E. 18 | McShane, E. J. 244 | Chogoshvili, G. S. 320
Morse, M. 77 | Hyers, D. H. 318 | Morse, M. 320
Denjoy, A. 109

TRANSCENDENCY PROBLEMS. See: Diophantine approximations (transcendency problems).

TRANSFINITE DIAMETER. See: polynomials (polynomial approximations); potential theory (capacity constants).

TRANSFINITE NUMBERS. See: sets (transfinite numbers)

TRIANGLES. See: elementary geometry (triangles).

TRIGONOMETRIC INTERPOLATION. See: Fourier series (trigonometric interpolation).

TRIGONOMETRIC POLYNOMIALS AND SERIES. See: Fourier series.

TURBULENCE. See: mechanics of continua (hydrodynamics); statistical mechanics (turbulence).

UNIFORMIZATION. See: functions of complex variables (Riemann surfaces).

UNIVALENT FUNCTIONS. See: functions of complex variables.

VARIATIONS, CALCULUS OF. See: calculus of variations.

VECTOR AND TENSOR CALCULUS. Cf. Analytic geometry; differential geometry.

*Taylor, J. H. 46

Elementary vector and tensor analysis.

*Rutherford, D. E. 46

VECTOR AND TENSOR CALCULUS. (Continued)

Tensors, spinors and related topics. Cf. Quantum mechanics; relativity.

Hlavatý, V. 27 Masuyama, M. 151 Belinfante, F. J. 273
Craig, H. V. 29 de Mira Fernandes, A. 177 McCrea, W. H. 325
Kawaguchi, A. 87 Sibata, T. 177 Cisotti, U. 325
van der Kulk, W. 88 Johnson, M. M. 273 Fierz, M. 352

WARING PROBLEM. See: number theory (Waring's problem).

WAVE MECHANICS. See: quantum mechanics.

WAVES. See: differential equations; electricity (waves); geophysics (seismic waves); mechanics of continua; numerical methods (differential equations).

WEBS, GEOMETRY OF. See: differential geometry (families of curves).

WHITTAKER FUNCTIONS. See: special functions (Bessel functions).

ZEROS. See: algebra: equations (zeros); functions of complex variables (zeros); numerical methods (equations); polynomials (zeros); special functions.

ZETA FUNCTIONS. See: Dirichlet series (Zeta functions); number theory.

ERRATA

P. 13: **Cameron-Wiener.**

In the first displayed formula read $\int_n^{n+1}|df(y)|$ instead of $\int_n^{n+1}df(y)$.

P. 48: **Kasner-De Cicco.**

In the third line from above read $ik(x, y)$ instead of $k(x, y)$.

P. 70: **Rankin.**

In lines 23–24 from above read (twice) in the exponents 11/2 instead of 13/2.

P. 83: **Pompilj.**

In the third line from above read z instead of x.

P. 137: **Gorny.**

In the first displayed formula read (n/k) instead of $\binom{n}{k}$.

P. 139: **Pitt.**

In the fifth and sixth lines of displayed formulas read $s_y(x)$, $s(y)$ and $s_t(x)$ instead of $S_y(x)$, $S(y)$ and $S_t(x)$, respectively.

P. 148: **Finetti.**

Read de Finetti instead of Finetti.

P. 149: **Ambrose.**

In the ninth line from above read $P'(M')=P(M)$ instead of $P'(M')=1$.

P. 151: **Masuamya.**

The author's name is Masuyama, but was misprinted in the original paper.

P. 168: **Stoker.**

In the fourth line from below, in the sentence: Si S est du type . . . read: Si S, ainsi que le cône qui lui appartient, est du type. . . .

P. 184: **Takeno.**

In the title read Born instead of born.

P. 225: **Tschakaloff.**

In the fifth line from above, insert the word "positive" before "trigonometric cosine polynomial."

P. 259: **Van der Lijn** (first review).

The word additive in the second line should be omitted.

P. 298: **Kolmogoroff.**

In the fifth line from below of the first column read Paris instead of Uppsala.

P. 304: **Jeffery.**

In the seventh line from above read $x_{n-1,n}\leqq$ instead of $x_{n-1}, n\leqq$.

In the tenth line from below read "review next page" instead of "preceding review."

P. 307: **Shah.**

In the third line from below after the words "entire function of order ρ" add "which has at least one zero."

Just Out

GAP AND DENSITY THEOREMS

By

NORMAN LEVINSON

Assistant Professor of Mathematics
Massachusetts Institute of Technology

AMERICAN MATHEMATICAL SOCIETY
COLLOQUIUM PUBLICATIONS

Volume 26: 8+246 pp. $4.00

Orders should be sent to

AMERICAN MATHEMATICAL SOCIETY

531 West 116th Street — New York City

For

ANNOUNCEMENT

Regarding

MICROFILM READING MACHINES

See Back Cover — *This Issue*

FOUR BASIC TEXTS

LIVING MATHEMATICS. A First Year College Course

By RALPH S. UNDERWOOD and FRED W. SPARKS, Texas Technological College. 364 pages, 6 x 9. $3.00

Intended primarily as a text for the survey course in mathematics, this distinctive new book presents a unique treatment of the subject in that it stimulates the interest of the student without sacrificing sound mathematical content. Part One specifically covers the ground of the usual course in algebra. Part Two is a rounding-out survey of the mathematical high-lights in trigonometry, analytic geometry, advanced algebra, and calculus. The text contains a wealth of illustrative material and problems.

COLLEGE ALGEBRA

By PAUL K. REES, Southern Methodist University, and FRED W. SPARKS, Texas Technological College. 312 pages, 6 x 9. $2.25

The purpose of this book is to give the student the training that is fundamental for the more advanced courses in mathematics, in science, and in engineering. The arrangement of topics is particularly effective. The opening chapters are devoted to functions, graphs, linear equations, systems of linear equations, and other topics not covered by high school algebra. Every new principle and method introduced in this book is illustrated by carefully explained examples.

PLANE AND SPHERICAL TRIGONOMETRY. *New second edition*

By LYMAN M. KELLS, WILLIS F. KERN, and JAMES R. BLAND, United States Naval Academy. 401 pages, 6 x 9. $2.00. With tables, $2.75

This is a simple, logically organized text in which the topics are so arranged that each is mastered in turn. Features of the book are the carefully graded exercises, the treatment of synthetic division, the chapter on the slide rule, the abridged methods of multiplication and division, etc. In the new edition much of the expository material has been rewritten and many new problems have been added.

DIFFERENTIAL AND INTEGRAL CALCULUS

By ROSS R. MIDDLEMISS, Washington University. 416 pages, 6 x 9. $2.50

Designed for the usual beginning course, this new book is unique in that it maintains a high degree of accuracy and is at the same time exceptionally clear and readable. The author's purpose is to give the student a real understanding of the principal concepts of the subject. To this end each fundamental idea is allowed to rise in a natural way and is then developed in a manner which encourages the student to give it calm and deliberate consideration. Provocative problems and questions are included.

Send for copies on approval

McGRAW-HILL BOOK COMPANY, Inc.

330 West 42nd Street — New York, N. Y.

Mathematical Reviews *offers a*

MICROFILM READING MACHINE

The usefulness of the microfilm reprint service of *Mathematical Reviews* depends to a large extent upon the availability of a reading machine that can be bought at a price within the reach of individuals as well as of libraries. The problem has been solved through the efforts of the Committee on Scientific Aids to Learning: a reading machine is being manufactured by the Spencer Lens Company which will be sold at a retail price of $32.00. In order to make the value of microfilm service known to the scientific public the Committee on Scientific Aids to Learning is distributing a limited number of these reading machines to scholars, part of this distribution being made to subscribers to *Mathematical Reviews*.

INTRODUCTORY OFFER

So long as the available supply lasts, a reading machine will be given on request and free of charge, except for shipping costs, to any subscriber who has paid his subscription to *Mathematical Reviews* in advance for three years beginning January, 1941. The machines will be shipped by express collect from Buffalo, New York.

All subscriptions accepted on this basis will be noncancellable and nontransferable for the period in question, and no refunds will be made.

This offer applies also to subscriptions at the reduced rate allowed to members of sponsoring organizations. In other words, a reading machine will be given to anyone who has paid his subscription for three years in advance—either at the full rate or at the reduced rates available to reviewers and to members of sponsoring organizations.

The manufacturer expects to begin delivery of the machines shortly after January 1, 1941. The number of machines available is limited and it is anticipated that the supply will be quickly exhausted. A certain number of machines therefore has been set aside for distribution outside the North American continent in order to compensate for the amount of time necessary for communication with the distant parts of the world. The offer above holds good for all subscribers in all parts of the world, but it must be borne in mind that the distribution charges (including import duty, if any) for the machine must be paid by the subscriber. The machine comes in a box of dimensions 16″ x 21″ x 33″, and weighs 32 pounds. An estimate of the express charges from the factory at Buffalo, New York, can be obtained from your local express office. It should also be borne in mind that since the machine is equipped with a lamp which operates on 110 volts, it will be necessary for the subscriber to supply a suitable transformer in case 110 volt power is not available in his locality.

Subscriptions and requests for the machine should be addressed to

MATHEMATICAL REVIEWS, Brown University
Providence, Rhode Island, U. S. A.

UNIVERSITY OF ARIZONA
LIBRARY